

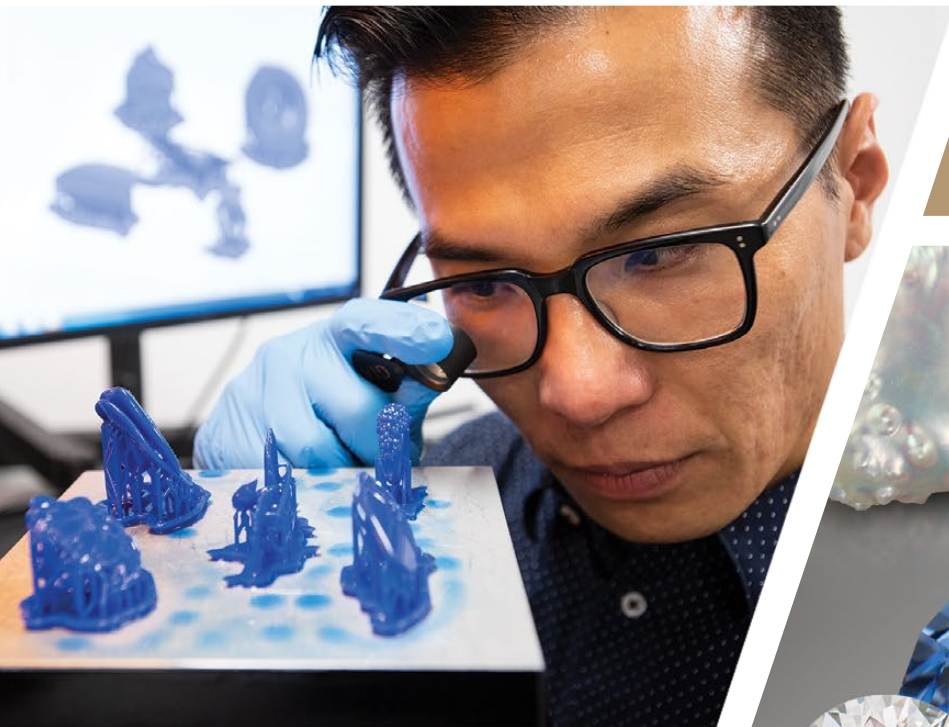


GIA

SUMMER 2018

# EDUCATION

Quarterly



Study with the World's  
Foremost Authority  
in Gemology™



JEWELRY DESIGN & TECHNOLOGY  
PROGRAM ENHANCEMENTS

The Future of Design



PULLOUT POSTER  
Gem Tour America  
GEMS • MINES • MUSEUMS

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Cover: gem images from left to right – (top) freshwater pearl, emerald, amethyst; (bottom) diamond, benitoite and sunstone. Courtesy: (benitoite) B&B Fine Gems, (freshwater pearl) John Latendresse, American Pearl Company, (sunstone) John Woodmark, Oregon Sunstone.

### GIA (Gemological Institute of America®)

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Carlsbad, CA 92008 USA  
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GIA.edu



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Alumni Profile:  
Robert Gessner, GIA GG



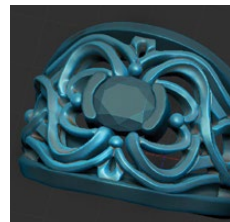
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GIA Symposium –  
Join Us Oct 7-9, 2018



Pullout Poster

Gem Tour America:  
Gems. Mines. Museums.



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JDT - Enhancements for the  
Future of Jewelry Design

GIA's campus in Carlsbad is accredited by the Accrediting Commission of Career Schools and Colleges (ACCSC). GIA's campus in New York is accredited by the ACCSC as a branch of GIA's campus in Carlsbad. ACCSC's accreditation is institutional in nature and includes GIA's U.S. On Campus education only. GIA's eLearning courses are accredited by the Distance Education Accrediting Commission (DEAC). GIA's lab classes do not fall within the purview of DEAC or ACCSC accreditation.



GIA Carlsbad: This institution is a private institution approved to operate by the California Bureau for Private Postsecondary Education. Approval to operate means the institution is compliant with the minimum standards contained in the California Private Postsecondary Education Act of 2009 (as amended) and Division 7.5 of Title 5 of the California Code of Regulations.

GIA New York: GIA's New York branch campus is licensed by the State of New York Bureau of Proprietary School Supervision.

For information about graduation rates, graduated students' median debt, gainful employment and other information, visit GIA.edu/student-consumer-information ©2018 Gemological Institute of America. All rights reserved. No reproduction of logos or images is allowed without specific written request and approval by GIA.

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NEW YORK



CARLSBAD



BANGKOK

# Invest in Your Career With a GIA Education

A GIA® education can put your professional dreams within reach.

Whether you're new to the industry or an experienced professional, a GIA education can give you the knowledge and skills to help advance your career. Your studies will prepare you to seize new opportunities in the gem and jewelry industry and forge a brighter future.

GIA campuses are located in many major gem and jewelry centers around the world. No matter which campus you attend, you'll study the same curriculum taught by industry veterans with extensive experience. Classrooms feature modern equipment, software and tools, so you'll be fluent in technologies that employers value in this vibrant industry.

When you graduate, you'll have earned one of the industry's most respected professional diplomas. With GIA credentials after your name, your peers will know that you have an in-depth understanding of your field of study. You'll also join the ranks of fellow GIA alumni who are leaders throughout the industry.

A GIA diploma or certificate is essential to success. Invest in yourself. Start learning and get ready to get ahead.

**Read more in this issue about our gemology and jewelry design credentials, and how to study with GIA Distance Education.**



HONG KONG



LONDON



MUMBAI



TAIPEI





# GRADUATE GEMOLOGIST®

GIA Graduate Gemologist graduates often choose these careers:

Appraiser  
 Auction House Jewelry Specialist  
 Colored Stone Buyer  
 Diamond Buyer  
 Diamond Sorter/Grader  
 Estate Jewelry Dealer  
 Gemologist  
 Inventory Control Specialist  
 Jewelry Business Owner  
 Jewelry Buyer  
 Lab and Research Professional  
 Merchandiser  
 Pawnbroker  
 Retailer  
 Sales Associate  
 Wholesaler

Contact Career Services for more information: [careerservices@gia.edu](mailto:careerservices@gia.edu)



## The Professional Credential That Opens Doors

The GIA Graduate Gemologist® (GG™) diploma program delivers a comprehensive gemology education on diamonds and colored stones. Using the latest gemological equipment, you will work with real diamonds and gemstones under the trained eyes of GIA® instructors. Through extensive lab work, you will practice identifying and grading diamonds and colored stones in an efficient, accurate and consistent manner. Skills taught include evaluating a diamond's proportions; distinguishing natural, treated and synthetic gemstones; and using the GIA Colored Stone Grading System to determine gemstone quality. When studying on campus, you will receive tweezers, a 10x loupe, a pointer probe, plotting pens, a gem cloth, a table gauge, a crown angle card, a color grading card, a polariscope, a dichroscope, a handheld spectroscope, pinpoint incandescent light source, a refractometer with polarizing filter and removable magnifying eyepiece, refractive index (RI) liquid, a lab manual and printed course materials.

### What You Will Learn:

- Develop in-depth, hands-on experience with the GIA International Diamond Grading System™ and the 4Cs (color, clarity, cut and carat weight)
- Grade diamonds in the D-to-Z color range
- Build a knowledge base about colored stones and the colored stone market
- Use gemological equipment effectively to identify gemstones
- Use the GIA Colored Stone Grading System to evaluate gemstone quality
- Identify gemstone characteristics, simulants and treatments, and recognize when advanced testing is required
- Understand how gems are mined, fashioned and brought to the marketplace
- Recognize how quality, rarity and color affect value
- Determine how market factors affect gem value

**What You Earn:** GIA Graduate Gemologist Diploma, GIA Graduate Diamonds Diploma, GIA Graduate Colored Stones Diploma

### 📍 On Campus

Full-time program offered at GIA campuses worldwide.

See *class schedule beginning on page 16*.

### 💻 Distance Education

A combination of eLearning courses offered through GIA in Carlsbad and instructor-led lab classes offered at GIA campuses and other locations worldwide (see *GIA Education Catalog* or [GIA.edu](http://GIA.edu) for details).

#### Five eLearning courses

- Diamond Essentials
- Diamonds & Diamond Grading
- Colored Stone Essentials
- Colored Stones
- Gem Identification

#### Three lab classes

- Diamond Grading lab – 5 days (or 10 nights when applicable)
- Colored Stone Grading lab – 3 days (or 6 nights when applicable)
- Gem Identification lab – 5 days (or 10 nights when applicable)

See *class schedule beginning on page 16*.

For eLearning and lab class descriptions, visit [GIA.edu/distance-ed](http://GIA.edu/distance-ed)



Learn more at [GIA.edu/GG](http://GIA.edu/GG)





# Robert Gessner

## Adventures in Colored Stones

Colored gemstone geologist Robert Gessner is eternally optimistic, with a *joie de vivre* that has accompanied him from working in the biggest mines in Africa to his new hometown of Dallas, Texas. There he works with William Noble Rare Jewels and owns a firm that sources fine gems. After earning his GIA Graduate Gemologist® (GG™) diploma in 2016, the Cape Town native is on a mission to spread the passion and excitement of colored gemstones.

### Exploring Africa

Adventure is in my blood. I grew up in South Africa, in a European family that loved the outdoors and travel. We were always seeing something new. By the age of 16, I had traveled most of South Africa. I love to meet new people, be exposed to their culture and appreciate their country's beauty.

### Early Days of TanzaniteOne

I earned my bachelors degree in geology from the University of Cape Town in 2002. I had nothing on my resume yet, but submitted it to a recruiting agency. They contacted me soon after with an opportunity in Tanzania. It was the early years of the company that became TanzaniteOne, the biggest colored gemstone miner and supplier of tanzanite in the world.

### A Life-Changing Visit to Tucson

In 2015, I took my first trip to America to the Tucson gem and mineral shows. I met my now-wife, Melissa Spencer, also a GIA GG, at the GIA Alumni Association dance party. There was an immediate connection, and we have been inseparable since. The next week I returned to Zambia and resigned my position so I could be with Melissa. When you know, you know.

### Deciding on GIA

I specialized in African colored stones, not Southeast Asian and South American like my mentors and peers. When I saw the gemstones and minerals on display in Tucson, it lit a spark of interest to learn about all of the gemstones around the world. After that, studying gemology at GIA for career growth was a no-brainer. I graduated with my GIA GG from Carlsbad in March 2016.

Follow Robert's journey from Southern Africa to Southern California at [GIA.edu/robert-gessner](https://GIA.edu/robert-gessner)

### The Foundation for a Career

GIA's practical and theoretical education, along with the staff, instructors and the Richard T. Liddicoat Gemological Library, are world-class. The hands-on practical work is vital, and when combined with the theory, you have knowledge essential to your career. You'll never know it all though, as our industry is always growing and changing.

### A New Adventure

My company, Gessner Gems, focuses on curating and sourcing fine colored gemstones for private clients, jewelers and designers. I try to provide my customers with a personal experience and professional connection, and stay relevant by attending international trade shows and conferences, and building relationships around the world.

## FUN FACTS

**Robert Gessner**  
GIA GG

#### Hobbies

Photography, travel, exercise

#### What I'm reading

*Arabian Nights;*  
Richard Hughes' *Ruby and Sapphire*

#### Favorite Movie

Any James Bond film

#### Favorite TV show

*Band of Brothers*

#### Favorite Gemstone

Rough tanzanite and the garnet group



Robert examining the 'picking belts' at the Kagem Mine in Zambia in 2014 where he was Gemfield's chief geologist at the mine.



Robert and his wife, Melissa Spencer, at their 2017 Malibu, CA wedding. The ceremony featured jewelry designed by the bride.



# GRADUATE COLORED STONES

GIA Graduate Colored Stones graduates often choose these careers:

- Appraiser
- Auction House Jewelry Specialist
- Colored Stone Buyer
- Estate Jewelry Dealer
- Jewelry Business Owner
- Jewelry Buyer
- Pawnbroker
- Retailer
- Wholesaler

Contact Career Services for more information: [careerservices@gia.edu](mailto:careerservices@gia.edu)

## Countless Colors, Limitless Possibilities

The Graduate Colored Stones diploma program explores the identification of common and unusual gemstones found in the marketplace. Subjects covered include the GIA Colored Stone Grading System and the correct usage of standard gemological equipment to distinguish natural, treated and synthetic gemstones. The program also examines which gems are commercially important, shifting supply patterns and how these factors affect gem prices and availability. This program also includes the study of more than 60 species of gemstones, and how illumination techniques can facilitate the identification process. When studying on campus, you will keep a polariscope, a dichroscope, a handheld spectroscope, a refractometer with polarizing filter and removable magnifying eyepiece, refractive index (RI) liquid, tweezers, a pinpoint incandescent light source, lab manual and printed course materials.

### What You Will Learn:

- Build a knowledge base about colored stones and the colored stone market
- Use gemological equipment effectively to identify gemstones
- Use the GIA Colored Stone Grading System to evaluate gemstone quality
- Recognize how quality, rarity and color affect value
- Determine how market factors affect gem value
- Understand how gems are mined, fashioned and brought to the marketplace

**What You Earn:** GIA Graduate Colored Stones Diploma

### On Campus

Full-time program offered at GIA® campuses worldwide.

See class schedule beginning on page 16.

### Distance Education

A combination of eLearning courses offered through GIA in Carlsbad and instructor-led lab classes offered at GIA campuses and other locations worldwide (see *GIA Education Catalog* or [GIA.edu](http://GIA.edu) for details).

#### Three eLearning courses

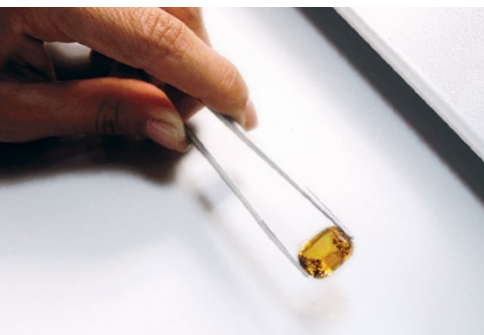
- Colored Stone Essentials
- Colored Stones
- Gem Identification

#### Two lab classes

- Colored Stone Grading lab – 3 days (or 6 nights when applicable)
- Gem Identification lab – 5 days (or 10 nights when applicable)

See class schedule beginning on page 16.

For eLearning and lab class descriptions, visit [GIA.edu/distance-ed](http://GIA.edu/distance-ed)



Courtesy: top (ruby crystal) Bill Larson, center: (emerald crystal) Ismael Daoud, bottom: (Burma sapphire) Pioneer Gems.



Learn more at [GIA.edu/GCS](http://GIA.edu/GCS)



# GRADUATE DIAMONDS

GIA Graduate Diamonds graduates often choose these careers:

- Auction House Jewelry Specialist
- Diamond Buyer
- Diamond Sorter/Grader
- Jewelry Business Owner
- Retailer
- Wholesaler

Contact Career Services for more information: [careerservices@gia.edu](mailto:careerservices@gia.edu)



## The Tremendous, Treasured and Timeless Diamond

The Graduate Diamonds diploma program examines the technical expertise needed to grade, buy and sell diamonds with the insight of a seasoned professional. This diploma program explores the GIA® diamond grading procedures to assess the 4Cs – color, clarity, cut and carat weight and how they affect diamond value. Students use professional diamond grading equipment for the purposes of examining a diamond’s quality characteristics to grade and identify diamonds. Coursework also includes creating plotting diagrams; determining fluorescence; and detecting treated diamonds, synthetic diamonds and diamond simulants. Other topics covered include the effect of fluorescence on diamond body color, the role cut plays in the marketplace, and important sectors of the diamond industry, including dealers, cutters and manufacturers. When studying on campus, you will receive tweezers, a 10x loupe, a pointer probe, plotting pens, a gem cloth, a table gauge, a crown angle card, a color grading card, a lab manual and printed course materials.

### What You Will Learn:

- Develop in-depth, hands-on experience with the GIA International Diamond Grading System™ and the 4Cs (color, clarity, cut and carat weight); appreciate how they affect diamond value
- Grade diamonds in the D-to-Z color range
- Detect diamond synthetics, treatments and simulants
- Recognize when advanced testing is required

**What You Earn:** GIA Graduate Diamonds Diploma

### 📍 On Campus

Full-time program offered at GIA campuses worldwide. See class schedule beginning on page 16.

### 💻 Distance Education

A combination of eLearning courses offered through GIA in Carlsbad and instructor-led lab classes offered at GIA campuses and other locations worldwide (see *GIA Education Catalog* or [GIA.edu](http://GIA.edu) for details).

#### Two eLearning courses

- Diamond Essentials
- Diamonds & Diamond Grading

#### One lab class

- Diamond Grading lab – 5 days (or 10 nights when applicable)

See class schedule beginning on page 16.

For eLearning and lab class descriptions, visit [GIA.edu/distance-ed](http://GIA.edu/distance-ed)



Learn more at [GIA.edu/GD](http://GIA.edu/GD)



# GRADUATE PEARLS

GIA Graduate Pearls graduates often choose these careers:

- Jewelry Business Owner
- Pearl Buyer
- Pearl Sorter/Grader
- Retailer
- Wholesaler

Contact Career Services for more information: [careerservices@gia.edu](mailto:careerservices@gia.edu)



## Timely Knowledge for Timeless Treasures

The Graduate Pearls diploma program provides the product knowledge and grading skills to effectively buy inventory and build confidence when buying and selling akoya, South Sea, Tahitian and freshwater pearls. You will be taught GIA's 7 Pearl Value Factors™: size, shape, color, luster, surface quality, nacre quality and matching – the essential criteria for assessing the value and beauty of pearls. Topics covered include post-harvest treatments, imitation pearls and pearl testing. Students will get hands-on training and practice testing pearls for authenticity and post-harvest treatments. Each student will receive a lab manual.

### What You Will Learn:

- Explain the differences between natural and cultured pearls
- Evaluate and grade cultured pearls based on GIA's 7 Pearl Value Factors™
- Describe the components of the GIA Pearl Report(s)
- Describe cultured pearl types and their sources
- Identify "other" pearl types found in the marketplace
- Describe common pearl treatments
- Understand the relationship of beauty, value, and quality
- Learn the process of pearl culturing and marketing

**What You Earn:** GIA Graduate Pearls Diploma

### Distance Education

A combination of one eLearning course offered through GIA® in Carlsbad and one instructor-led lab class offered at GIA campuses and other locations worldwide (see *GIA Education Catalog* or [GIA.edu](http://GIA.edu) for details).

#### One eLearning course

- Pearls

#### One lab class

- Pearl Grading lab – 1 day (or 2 nights when applicable)

See class schedule beginning on page 16.

For eLearning and lab class descriptions, visit [GIA.edu/distance-ed](http://GIA.edu/distance-ed)

[Learn more at GIA.edu/GP](http://GIA.edu/GP)



Courtesy: Tara Pearls





# APPLIED JEWELRY PROFESSIONAL®

## PROFESSIONAL DEVELOPMENT

The GIA Applied Jewelry Professional program provides fundamental education for professionals in careers like these:

Jewelry Assistant Manager  
Jewelry Sales Professional  
Television Shopping Host  
Pawnbroker

Contact Career Services  
for more information:  
[careerservices@gia.edu](mailto:careerservices@gia.edu)



## The Front Line of the Jewelry Industry

The Applied Jewelry Professional® (AJP®) program covers topics including jewelry designs, setting styles, jewelry care and other content that will support the product knowledge of current industry professionals. The AJP program also introduces basic information about diamonds, rubies, emeralds, sapphires and the GIA® clarity grading system. Other subjects of study include how modern technology is changing the way diamonds are cut, the qualities of precious metals, major jewelry manufacturing methods and the important activities involved in the operation of a retail jewelry store. To enable effective product conversations, examples are provided on how to translate jewelry features into benefits and how to communicate the 4Cs of diamond value to customers. The AJP program provides clear and concise information that can be immediately implemented on the job.

### What You Will Learn:

- Describe how the 4Cs (color, clarity, cut and carat weight) affect a diamond's value
- Recognize the relationship between size and weight of diamonds
- Explain the differences between treated, synthetic and imitation stones to sell with full disclosure
- Understand the steps of the jewelry sales process
- Translate jewelry design, style and manufacturing features into benefits
- Convey the romance, lore and characteristics of the most popular colored gemstones

**What You Earn:** GIA Applied Jewelry Professional Diploma



### eLearning

Courses offered through GIA in Carlsbad (see *GIA Education Catalog* or [GIA.edu](http://GIA.edu) for details).

#### Three eLearning courses

- Jewelry Essentials
- Colored Stone Essentials
- Diamond Essentials

*New courses start every Monday (except certain holidays)*



Learn more at [GIA.edu/AJP](http://GIA.edu/AJP)

*Courtesy: Sandra Biachi*



# GIA Distance Education

Study the same GIA® curriculum as full-time, on-campus students, but with greater flexibility to meet your family and job commitments. GIA Distance Education is a combination of online eLearning courses and hands-on lab classes. It's a comprehensive gemology education that will expand your professional knowledge and can help advance your career.



## GIA Distance Education Diploma Programs

GIA Distance Education gemology diploma programs include eLearning courses plus lab classes taken at a GIA school. These programs include:

- GIA Graduate Gemologist® (GG™) Diploma Program (page 4)
- GIA Colored Stones Diploma Program (page 6)
- GIA Graduate Diamonds Diploma Program (page 7)
- GIA Graduate Pearls Diploma Program (page 8)
- Applied Jewelry Professional (AJP®) Diploma Program – this program is available through GIA Professional Development by taking three eLearning courses (page 9)

## How You'll Learn

- Experience coursework through media-rich eLearning modules that bring GIA's gemological expertise to life through graphics, images and videos.
- Study whenever and wherever you want, then submit assignments and take exams through our easy-to-use online eLearning platform.
- Get hands-on experience, including the use of common gemological instruments, in lab classes offered at GIA schools worldwide.



## What You Need To Know to Get Started

- eLearning courses start every Monday, except certain holidays
- Register and pay for each course separately
- If you are registering for a lab class, check out the class schedule starting on page 16
- Complete your course during the completion time (3 to 24 months depending on the course)

## Scholarship Opportunities

GIA scholarships are available for Distance Education and On Campus programs. The next application period is August 1 – September 30 for programs and courses starting in 2019. Apply at [GIA.edu/scholarships](http://GIA.edu/scholarships)

## Instructors

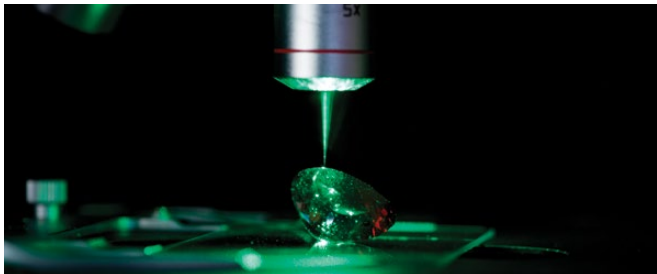
Distance Education instructors are assigned to students for each course to answer your questions by email or phone. Learn more about each of them in the faculty section at [GIA.edu/distance-ed](http://GIA.edu/distance-ed)

Start your professional gemology education now with GIA Distance Education. Learn more and apply online now at [GIA.edu/distance-ed](http://GIA.edu/distance-ed)

# 2018 GIA SYMPOSIUM

## NEW CHALLENGES. CREATING OPPORTUNITIES.

OCTOBER 7-9, 2018 • CARLSBAD, CA



### GIA RESEARCH TRACK

Latest findings by researchers and scientists respected across the industry and from around the world. **Topics include:** Diamond Identification, Colored Stone/Pearl Identification, Gem Localities and Gem Formations, Gem Characterization, General Gemology, and New Technologies and Techniques.



### HARVARD BUSINESS TRACK

Harvard Business School professors lead an exploration into *Authentic Leadership*, *Customer Centricity* and *Disruptive Innovation* utilizing the famed HBS case-study method.



### THE MUSIC PARADIGM

An engaging and unforgettable learning experience that translates the unique insights of a symphony orchestra conductor into lessons on leadership and collaboration.

### FUTURESCAPE FORUM

Symposium will close with *Futurescape Forum* – a landmark event that will change how you think about the industry's trajectory. An interactive dialogue moderated by David Ager of Harvard Business School, industry leaders will deliberate their unfiltered predictions on the horizon for the gem and jewelry industry.



Bruce Cleaver  
*De Beers*



Gina Drosos  
*Signet Jewelers*



Jason Goldberger  
*Blue Nile*



Rahul Kadakia  
*Christie's*



Kent Wong  
*Chow Tai Fook*

DON'T MISS OUT. REGISTER NOW AT [SYMPOSIUM.GIA.EDU](http://SYMPOSIUM.GIA.EDU)





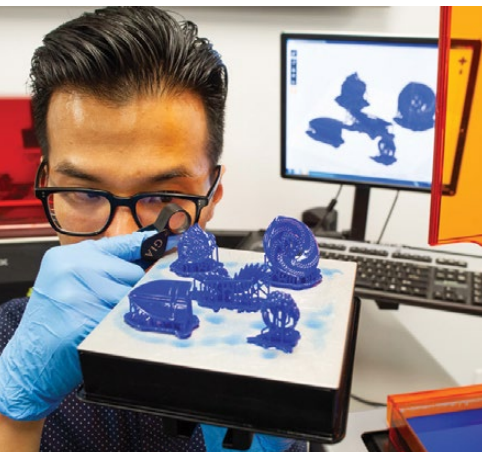


# JEWELRY DESIGN & TECHNOLOGY

GIA Jewelry Design & Technology graduates often choose these careers:

CAD/CAM Service Bureau Technician  
CAD Designer  
CAM Operator  
Jewelry Designer  
Product Developer  
Quality Assurance Specialist

Contact Career Services for more information:  
[careerservices@gia.edu](mailto:careerservices@gia.edu)



Students examine 3D printing models of their CAD designs to ensure they meet GIA jewelry engineering principles.



See GIA Jewelry Design & Technology students showcase their portfolios at the final design exhibition at [GIA.edu/jdtvideo](http://GIA.edu/jdtvideo)

## Skills From Concept to Counter

The Jewelry Design & Technology diploma program covers topics essential to becoming a jewelry designer and Computer-Aided Design (CAD) technician, including being able to build a CAD model of jewelry to engineering specifications and understanding the challenges that come with its manufacturing. Instructors teach design elements and principles and concept sketching to create attractive jewelry designs to present to a client prior to building the CAD model. Other topics covered include important jewelry design eras, understanding and applying motifs to jewelry, and jewelry manufacturing methods. You will be provided with a limited student license for Matrix, Rhinoceros and ZBrush software, an external hard drive, a 10x loupe and hand-measuring tools for you to keep.

### What You Will Learn:

- Use fundamental design concepts, including texture, shape, form, balance, negative space and color
- Apply the CAD model engineering concepts to make durable and comfortable pieces that are long lasting
- Create, render and prototype designs using CAD software like Matrix, Rhinoceros, ZBrush and V-Ray; and operate Computer-Aided Manufacturing (CAM) hardware like a 3D printer
- Understand manufacturing processes for the creation of jewelry, like die-striking and casting
- Design and develop CAD models using the metrics of scale, proportion, and element relationships; and within the constraints of cost, time, size, style and manufacturing methods
- Apply GIA Quality Assurance Benchmarks™ to jewelry designs to ensure proper engineering for manufacturing and wear
- Develop digital and physical portfolios of class projects and custom designs that are ready for presentation to potential clients and employers, and display work in a final design exhibition

**What You Earn:** GIA Jewelry Design & Technology Diploma

### On Campus

Full-time program offered at GIA® campuses in Carlsbad and New York.

See *class schedule* beginning on page 16.



Learn more at [GIA.edu/JDT](http://GIA.edu/JDT)

Students learn to use popular CAD software to design a variety of jewelry and create realistic renderings that will impress clients and employers.



# Program Enhancements Prepare Graduates for the Future of Jewelry Design

The industry leading GIA Jewelry Design & Technology diploma program offers a unique integration of jewelry design and engineering principles. Additions to the program makes it an unparalleled training ground for the next generation of top jewelry designers.

As advancing technology reshapes how jewelry is designed, GIA® continually evaluates and refines the curriculum of our JDT program to ensure that our graduates are prepared for today's and tomorrow's job market.

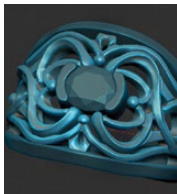
"In addition to following trends, we constantly monitor what skills employers look for in jewelry designers. We also pay close attention to what entrepreneurs need to know," noted Global CAD/CAM Product Manager Michael Magee. "These enhancements will continue to empower our students to succeed after graduation."

## 2018 Curriculum Additions Include:

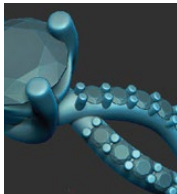


### 2D Digital Sketching

Learn to use Sketchbook software with a pressure-sensitive tablet to create digital designs that can easily be uploaded to CAD software and shared with clients.

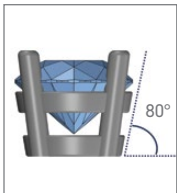


**Digital Sculpting with ZBrush** software allows jewelry designers to manipulate "digital clay" for a more organic modeling experience, enabling a more artistic, hand-sculpted look for your CAD models.



### ZBrush Custom Tools

GIA has created seven custom digital "brushes" that incorporate GIA's CAD engineering concepts for stone setting. You'll take these digital brushes with you after you graduate.

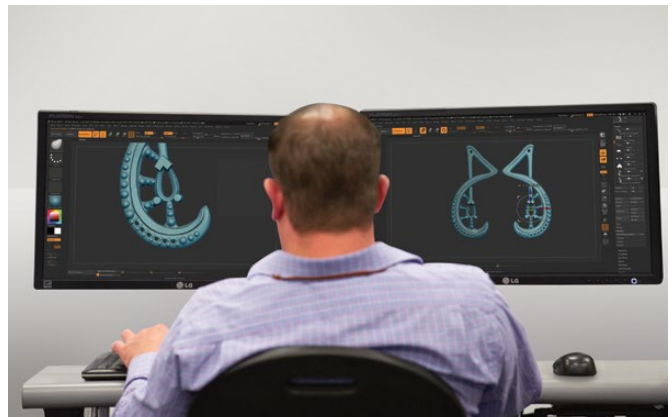


### CAD Engineering Fundamentals

GIA has revised and expanded lessons on CAD engineering fundamentals, sharing specifications and parameters to create quality, properly engineered pieces to withstand the stress of daily wear.



Students use pressure-sensitive tablets to sketch and easily manipulate their CAD designs.



GIA custom digital brushes in ZBrush let students quickly add multiple gemstones into their designs.

Learn the Latest in Jewelry Design - Enroll Today at [GIA.edu/JDT](http://GIA.edu/JDT)

Next Class in Carlsbad starts July 12, 2018 and in New York on September 20, 2018



# GRADUATE JEWELER

GIA Graduate Jewelers often choose these careers:

Bench Jeweler  
Business Owner  
Custom Order Jeweler  
Jewelry Buyer  
Jewelry Repair Technician  
Manufacturing Executive  
Quality Assurance Specialist  
Stone Setter

Contact Career Services for more information:  
[careerservices@gia.edu](mailto:careerservices@gia.edu)



## Create Jewelry With a Confident Hand and Critical Eye

The Graduate Jeweler diploma program offers a hands-on learning experience in a professional environment that will prepare you for a career as a bench jeweler. The course covers skills valuable for jewelry designers, Computer-Aided Design (CAD) modelers, and sales professionals. You will make and repair jewelry in a safe and sustainable manner within a clean, modern, well-equipped classroom that includes a laser welder. At your own workbench – equipped with a torch, micromotor and essential toolkit – you will develop core skills with progressively challenging projects. You will work with gemstones and precious metals, taking projects from castings to finished, set and polished pieces. You will keep your hand tools and digital course content, which includes technical illustrations, instructional videos and a bench reference guide.

### What You Will Learn:

- Use laser-welding technology for gold, silver and platinum
- Develop essential skills, including polishing, filing, texturing, sawing, fabrication and forging techniques, stone setting and general torch skills
- Set a variety of stone shapes, including princess-cut stones, in mounting styles such as channel setting, bezel setting, and prong setting, in base metals, silver, white gold, yellow gold and platinum
- Perform the most common jewelry repairs, including sizing rings, replacing prongs, repairing broken chains and installing new settings
- Apply both textured and polished finishes to jewelry surfaces on a variety of metals
- Evaluate and improve workmanship using GIA Quality Assurance Benchmarks™

**What You Earn:** GIA Graduate Jeweler Diploma

### On Campus

Full-time class offered at GIA's campus in Carlsbad.  
See [class schedule beginning on page 16](#).



Learn more at [GIA.edu/GJ](http://GIA.edu/GJ)



See GIA® Graduate Jeweler students tackle the "Halo ring" project in 14K gold at [GIA.edu/gjvideo](http://GIA.edu/gjvideo)

*Halo Ring project, GIA Graduate Jeweler, 2017. This project features an oval center stone in a six-prong setting surrounded by round, precision-cut stones in a halo setting with common prongs. This project is completed in sterling silver and two-tone white and yellow 14k gold.*







# CCC COMPREHENSIVE CAD/CAM FOR JEWELRY

## The Driving Force in Jewelry Design and Manufacturing Technology

This comprehensive seven-week course covers the skills necessary to become a CAD/CAM (Computer-Aided Design/ Computer-Aided Manufacturing) technician. Skills taught include using CAD software (Matrix and Rhinoceros) to develop models and V-Ray software for photorealistic renderings. Topics covered also include subtractive and additive CAM machines, jewelry manufacturing techniques, GIA Quality Assurance Benchmarks and jewelry-engineering fundamentals.

### What You Will Learn:

- Create CAD models within the metrics of scale, proportion and element relationships
- Develop CAD models within the constraints of cost, time, size, style and manufacturing methods
- Distinguish between various CAD software, including Matrix and Rhinoceros; and various CAM methods, including 3D printing
- Model and render manufacturable pieces of jewelry using CAD

**What You Earn:** GIA Comprehensive CAD/CAM for Jewelry Certificate

Full-time course offered at GIA® campuses in Carlsbad, New York and London.

See class schedule beginning on page 16.

# JD JEWELRY DESIGN

## Illustrate Your Way to a Promising Future

In this intensive nine-week course, instructors teach creative and technical hand-rendering skills needed to begin a career as a custom jewelry designer. Jewelry design theory helps students acquire a working knowledge of jewelry artistry. Skills covered include illustrating the shape, form and texture of metal; working with drafting tools; and rendering yellow and white metals as well as a range of faceted and cabochon gemstones and pearls. Instructors show how to illustrate rings in five different views and how to keep design ideas flowing. At the completion of this course, you will have a hand-developed portfolio of your work and a digital copy to show prospective employers and clients. You will be able to keep your design toolkit, which contains a variety of paints, pencils, brushes, templates, papers and vellum, and other art tools.

### What You Will Learn:

- Develop sources of inspiration
- Understand jewelry design theory and artistry
- Illustrate shape, form and texture of metal
- Render faceted gems, pearls, colored metals, etc.
- Learn traditional drafting techniques
- Develop motifs to create sketches of jewelry objects
- Create a portfolio of class projects and custom designs that is ready for presentation to potential clients and employers

**What You Earn:** GIA Jewelry Design Certificate

Full-time course offered at GIA campuses worldwide.

See class schedule beginning on page 16.

### GIA Comprehensive CAD/CAM for Jewelry graduates often choose these careers:

- CAD Service Bureau Technician
- Jewelry CAD Technician
- Product Developer

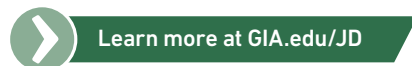
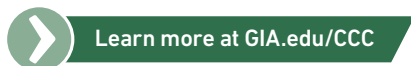
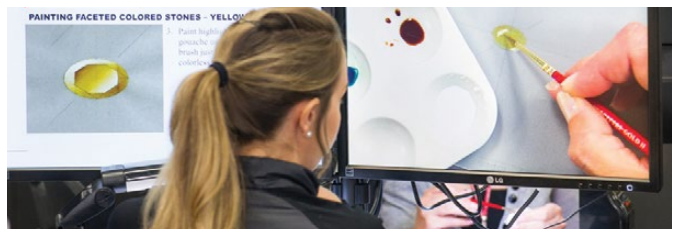
Contact Career Services for more information: [careerservices@gia.edu](mailto:careerservices@gia.edu)



### GIA Jewelry Design graduates often choose these careers:

- Custom Designer
- Hand Renderer
- Jewelry Business Owner
- Jewelry Designer
- Sales Associate

Contact Career Services for more information: [careerservices@gia.edu](mailto:careerservices@gia.edu)



# 2018 Class Schedules

## ON-CAMPUS PROGRAMS

Please refer to GIA.edu for the most up-to-date schedules, tuition and fees.

Unless otherwise noted, all classes are held at GIA® facilities at the address shown on the back cover of the most current version of the *GIA Education Catalog* or campus handbook for your campus of interest.

GIA reserves the right to reschedule or cancel classes.

## CARLSBAD, CA

### GEMOLOGY

#### GEM 2500 Graduate Gemologist®

Jan 11-Jul 27  
Feb 15-Aug 31  
Mar 15-Sep 28  
May 24-Dec 14  
Jul 12, 2018-Feb 22, 2019  
Sep 6, 2018-Apr 19, 2019  
Oct 11, 2018-May 24, 2019

#### GEM 2200 Graduate Diamonds

Jan 11-Mar 9\*  
Feb 1-Mar 30  
Feb 15-Apr 13\*  
Mar 15-May 11\*  
May 24-Jul 20\*  
May 31-Jul 27  
Jul 12-Sep 7\*  
Sep 6-Nov 2\*  
Sep 20-Nov 16  
Oct 11-Dec 14\*

#### GEM 2300 Graduate Colored Stones

Mar 12-Jul 27\*  
Apr 16-Aug 31\*  
May 14-Sep 28\*  
Jul 23-Dec 14\*  
Sep 10, 2018-Feb 22, 2019\*  
Nov 5, 2018-Apr 19, 2019\*

### JEWELRY MANUFACTURING ARTS

#### JMA 3400 Jewelry Design & Technology

May 31-Dec 14  
Jul 12, 2018-Feb 15, 2019

#### JMA 3300 Graduate Jeweler

Jan 11-Jul 20  
May 31-Dec 14  
Sep 6, 2018-Apr 12, 2019

#### JMA 370 Jewelry Design

Feb 1-Apr 6  
Jul 5-Sep 7

#### JMA 400 Comprehensive CAD/CAM for Jewelry

Apr 26-Jun 15  
Oct 11-Dec 7

## NEW YORK, NY

### GEMOLOGY

#### GEM 2500 Graduate Gemologist®

Jan 4-Jul 20  
Mar 1-Sep 14  
Apr 26-Nov 9  
Jun 21, 2018-Feb 1, 2019  
Jul 26, 2018-Mar 8, 2019  
Aug 16, 2018-Mar 29, 2019  
Oct 11, 2018-May 24, 2019

#### GEM 2200 Graduate Diamonds

Jan 4-Mar 2\*  
Feb 1-Mar 30  
Mar 1-Apr 27\*  
Apr 5-Jun 1  
Apr 26-Jun 22\*  
Jun 7-Aug 3  
Jun 21-Aug 17\*  
Jul 26-Sep 21\*  
Aug 16-Oct 12\*  
Sep 6-Nov 2  
Oct 11-Dec 14\*

#### GEM 2300 Graduate Colored Stones

Mar 5-Jul 20\*  
Apr 30-Sep 14\*  
Jun 25-Nov 9\*  
Aug 20, 2018-Feb 1, 2019\*  
Sep 24, 2018-Mar 8, 2019\*  
Oct 15, 2018-Mar 29, 2019\*

### JEWELRY MANUFACTURING ARTS

#### JMA 3400 Jewelry Design & Technology

Sep 20, 2018-Apr 26, 2019

#### JMA 370 Jewelry Design

Jan 18-Mar 23  
Apr 12-Jun 15  
Jul 12-Sep 14

#### JMA 400 Comprehensive CAD/CAM for Jewelry

Mar 29-May 18  
Jul 5-Aug 24

### CLASS DURATION AND HOURS

#### Monday-Friday Day Classes

Schedules may vary depending on holidays, breaks or other events. For more detail visit:

**Carlsbad:** GIA.edu/carlsbad-class-duration-hours  
or contact admissions@gia.edu

**New York:** GIA.edu/new-york-class-duration-hours  
or contact nyadmissions@gia.edu

#### Night and Weekend Classes

**New York:**  
Monday-Thursday:  
On campus: 6:00 – 9:30 p.m.  
Saturday: 8:00 a.m. – 4:00 p.m.

## LAB CLASSES AND STUDENT WORKROOMS

## CARLSBAD, CA

### GEMOLOGY

#### GEM 220L Colored Stone Grading

Jan 22-24  
Apr 16-18  
Jun 25-27  
Sep 24-26  
Nov 5-7

#### GEM 230L Diamond Grading

Jan 8-12  
Apr 2-6  
Apr 23-27  
Jun 11-15  
Sep 10-14  
Oct 22-26  
Nov 12-16

#### GEM 240L Gem Identification

Jan 15-19  
Apr 9-13  
Jun 18-22  
Sep 17-21  
Oct 29-Nov 2

#### GEM 149L Pearl Grading

Jan 25  
Apr 19  
Jun 28  
Sep 27  
Nov 8

### STUDENT WORKROOM

Available daily, Monday – Friday, 9:00 a.m. – 12:00 p.m. and 1:00 – 4:00 p.m., on a first-come, first-served basis for up to eight students.

Fees are \$35 for half day and \$70 for full day. No fees for exams.

For a complete list of Student Workroom prerequisites, services, and additional details, visit GIA.edu.

To reserve a seat, call +1 800 421 7250 ext 4404, or outside the U.S. call +1 760 603 4404 or email lessons@gia.edu

### JEWELRY MANUFACTURING ARTS

#### JMA 320L Basic Repair and Setting

May 7-11  
Aug 6-10

#### JMA 340L Intermediate Repair and Setting

May 14-18  
Aug 13-17

## NEW YORK, NY

### GEMOLOGY

#### GEM 220L Colored Stone Grading

Jan 22-24  
Mar 12-14  
Apr 9-11  
May 7-9  
Jun 25-27  
Oct 1-3  
Oct 13-27 (S)  
Oct 29-Nov 6 (N)  
Dec 10-12

#### GEM 230L Diamond Grading

Jan 8-12  
Feb 26-Mar 2  
Mar 26-30  
Mar 31-Apr 28 (S)  
Apr 23-27  
Jul 16-20  
Aug 6-21 (N)  
Aug 13-17  
Nov 5-9  
Nov 26-30

#### GEM 240L Gem Identification

Jan 15-19  
Mar 5-9  
Apr 2-6  
Apr 30-May 4  
Jun 18-22  
Jul 14-Aug 11 (S)  
Sep 24-28  
Sep 24-Oct 9 (N)  
Dec 3-7

#### GEM 149L Pearl Grading

Jan 25  
Mar 15  
Apr 12  
May 10  
Jun 28  
Oct 4  
Dec 13

### STUDENT WORKROOM

Monday – Friday, 9:00 a.m. – 12:00 p.m. and 1:00 – 4:00 p.m.

Fees are \$35 for half day and \$70 for full day. No fees for exams.

For a complete list of Student Workroom prerequisites, services, and additional details, visit GIA.edu

To reserve a seat, call +1 800 366 8519, or outside the U.S. call +1 212 944 5900, or email nyworkroom@gia.edu

Feb 5-9  
Feb 12-16  
Apr 9-13  
Apr 16-20  
May 21-25  
May 29-Jun 1  
Jul 30-Aug 3  
Aug 6-10  
Dec 3-7  
Dec 10-14

# 2018 Class Schedules

## U.S. SEMINARS

### LAS VEGAS, NV

To register, and for class location, call American Gem Society at +1 702 255 6500 ext 1020 or email nmorales@ags.org

#### GEMOLOGY

##### **GEM 220L Colored Stone Grading**

Oct 10-12

##### **GEM 230L Diamond Grading**

Feb 26-Mar 2  
Oct 15-19

##### **GEM 240L Gem Identification**

Mar 5-9

### LAS VEGAS, NV

Seminars offered during JCK show.

#### GEMOLOGY

##### **Identifying Synthetic Diamond Seminar**

June 1

##### **Ruby: Country of Origin Determination**

June 1

### TUCSON, AZ

Classes are held at the Tucson Convention Center, 260 South Church, Tucson, AZ 86701.

#### GEMOLOGY

##### **GEM 275L Identifying Synthetic Diamond Seminar w/Lab**

Feb 2 (\$225)

##### **GEM 275L Ruby: Country of Origin Determination**

Feb 3 (\$225)

##### **GEM 275L Sapphire: Country of Origin Determination**

Feb 3 (\$225)

To register, call GIA Admissions at +1 800 421 7250 ext 4001 or +1 760 603 4001.

## ON-CAMPUS PROGRAMS

### BANGKOK GIAthai.net

#### GEMOLOGY

##### **GEM 2500 Graduate Gemologist®**

May 31-Dec 14

##### **GEM 2200 Graduate Diamonds**

Jan 25-Mar 23  
May 31-Jul 26  
Aug 9-Oct 5  
Oct 25-Dec 21

##### **GEM 2300 Graduate Colored Stones**

Jan 11-Jun 1  
Jul 26-Dec 14

##### **Applied Jewelry Professional® (Intensive)**

Jan 15-19  
Apr 23-27  
Sep 24-28

#### JEWELRY MANUFACTURING ARTS

##### **JMA 370 Jewelry Design**

Feb 1-Apr 5  
Jun 7-Aug 10  
Oct 18-Dec 21

##### **Quick Design**

May 14-18  
Aug 27-31

### DELHI GIAIndia.in

#### GEMOLOGY

##### **GEM 2500 Graduate Gemologist®**

Apr 19-Nov 2

##### **GEM 2200 Graduate Diamonds**

Jan 18-Mar 16  
Apr 19-Jun 15

##### **GEM2300 Graduate Colored Stone**

Jun 14-Nov 2

##### **Applied Jewelry Professional® (Intensive)**

Mar 19-23  
Sep 17-21

### DUBAI GIAmideast.com

Classes will be held at Gold Tower, JLT Premises, unless otherwise mentioned.

#### GEMOLOGY

##### **GEM 2200 Graduate Diamonds**

Jan 4-Mar 1  
Mar 22-May 17  
Jun 21-Aug 16  
Aug 23-Oct 18  
Nov 1-Dec 27

##### **Applied Jewelry Professional® (Intensive)**

Jan 28-Feb 1  
Apr 22-26  
Aug 12-16  
Sep 30-Oct 4  
Dec 9-13

### HONG KONG GIAhongkong.com

#### GEMOLOGY

##### **GEM 2500 Graduate Gemologist®**

Jan 4-Aug 10  
May 31-Dec 21

##### **GEM 2200 Graduate Diamonds**

Jan 4-Mar 9  
Jan 2-Mar 26 (Cantonese) (M, Tu, Th) (H)  
Mar 19-May 31 (Cantonese)(M, Tu, Th) (H)  
Apr 9-Jun 11 (Cantonese) (M, W, F) (H)  
Apr 9-Jun 11 (Cantonese) (M, Tu, Th) (H)  
May 31-Jul 27  
Jun 25-Aug 24 (Cantonese) (M, W, F) (H)  
Jul 3-Aug 30  
Jul 9-Sep 4 (M, Tu, Th) (H)  
Aug 6-Oct 5 (Cantonese) (M, Tu, Th) (H)  
Oct 22-Dec 18 (Cantonese) (M, Tu, Th) (H)  
Oct 25-Dec 21

##### **GEM 2300 Graduate Colored Stones**

Jan 2-Jul 10 (Cantonese) (M, Tu, Th) (H)  
Mar 15-Aug 10  
Apr 9-Sep 10 (Cantonese) (M, W, F) (H)  
Jul 12-Dec 30 (Cantonese) (M, Tu, Th) (H)  
Jul 26-Dec 21

#### JEWELRY MANUFACTURING ARTS

##### **JMA 370 Jewelry Design**

Mar 19-May 25  
Aug 13-Oct 19 (Cantonese)

### LONDON London.GIA.edu

#### GEMOLOGY

##### **GEM 2500 Graduate Gemologist®**

Jan 18-Aug 3†  
Mar 1-Sep 14  
May 31-Dec 14  
Sep 6, 2018-Apr 12, 2019  
Oct 18, 2018-May 24, 2019

##### **GEM 2200 Graduate Diamonds**

Jan 18-Mar 16\*‡  
Mar 1-Apr 27\*  
May 31-Jul 27\*  
Sep 6-Nov 2\*  
Oct 18-Dec 14\*

##### **GEM 2300 Graduate Colored Stones**

Mar 15-Aug 3\*  
Apr 26-Sep 14\*  
Jul 26-Dec 14\*  
Nov 1, 2018-Apr 12, 2019\*

#### JEWELRY MANUFACTURING ARTS

##### **JMA 370 Jewelry Design**

Jan 11-Mar 16  
May 31-Aug 3  
Oct 11-Dec 14

##### **JMA 400 Comprehensive CAD/CAM for Jewelry**

Mar 29-May 18  
Aug 16-Oct 5

† Graduate Diamonds portion of this program will be held at the Goldsmiths' Centre, London

‡ This program will be held at the Goldsmiths' Centre, London

(N) = Nighttime; (S) = Saturday; (H) = Course includes both on-campus and self-paced study.

**Class Duration:** Please note class schedules may vary depending on holidays and breaks; please review the schedule carefully and plan accordingly.

\* Dates offered on a standby basis. Call for availability. You will be placed on a waiting list until 30 days prior to the start of your program or class when GIA can confirm your space availability. Schedules are subject to change without notice. For a current schedule, visit [GIA.edu/schedules](http://GIA.edu/schedules). Contact the campus to confirm availability and for additional information and details.



# 2018 Class Schedules

## ON CAMPUS PROGRAMS (cont.)

### MUMBAI GIAIndia.in

#### GEMOLOGY

##### GEM 2500 Graduate Gemologist®

Jan 4-Jul 20  
Apr 12-Oct 26  
May 24-Dec 14  
Jul 26, 2018-Feb 15, 2019

##### GEM 2200 Graduate Diamonds

Jan 4-Mar 2  
Feb 1-Mar 30  
Feb 22-Apr 20  
Mar 22-May 18  
Apr 12-Jun 8  
May 3-Jun 29  
May 24-Jul 20  
Jun 28-Aug 24  
Jul 26-Sep 21  
Aug 30-Oct 26  
Nov 8, 2018-Jan 4, 2019  
Nov 29, 2018-Jan 25, 2019

##### GEM 2300 Graduate Colored Stones

Mar 1-Jul 20\*  
Jun 7-Oct 26\*  
Jul 19-Dec 14\*  
Sep 20, 2018-Feb 15, 2019\*

#### JEWELRY MANUFACTURING ARTS

##### JMA 370 Jewelry Design

Jan 11-Mar 16  
Apr 5-Jun 8  
Jun 28-Aug 31  
Nov 15, 2018-Jan 18, 2019

##### Applied Jewelry Professional® (Intensive)

Feb 5-9  
Mar 26-30  
Oct 29-Nov 2  
Nov 26-30

### SHANGHAI GIAtaiwan.com.tw

#### GEMOLOGY

##### GEM 2500 Graduate Gemologist®

Mar 9-Sep 21 (Chinese)  
Jul 6, 2018-Feb 1, 2019 (Chinese)

##### GEM 2200 Graduate Diamonds

Mar 9-May 4 (Chinese)  
May 11-Jul 6 (Chinese)  
May 12-Jul 14 (Chinese) (S) (H)  
July 6-Aug 31 (Chinese)

##### GEM 2300 Graduate Colored Stones

May 4-Sep 21 (Chinese)  
Jul 21, 2018-Jan 26, 2019 (Chinese) (S) (H)  
Aug 31, 2018-Feb 1, 2019 (Chinese)

#### JEWELRY MANUFACTURING ARTS

##### JMA 370 Jewelry Design

Oct 22-Dec 21 (Chinese)

### SURAT GIAIndia.in

#### GEMOLOGY

##### GEM 2200 Graduate Diamonds

Mar 8-May 4  
May 17-Jul 13  
Aug 16-Oct 12  
Nov 15, 2018-Jan 11, 2019

##### Applied Jewelry Professional® (Intensive)

Feb 12-16  
Oct 15-19

### TAIWAN GIAtaiwan.com.tw

#### GEMOLOGY

##### GEM 2500 Graduate Gemologist®

Mar 23-Oct 5 (Chinese)  
Jul 6, 2018-Jan 25, 2019 (Chinese)  
Nov 2, 2018-May 31, 2019 (Chinese)

##### GEM 2200 Graduate Diamonds

Mar 19-May 18 (Chinese) (M, W, F, N) (N)  
Mar 23-May 18 (Chinese)  
Jun 2-Aug 11 (Chinese) (S) (H)  
Jul 6-Aug 31 (Chinese)  
Aug 24-Oct 22 (Chinese) (M, W, F, N) (N)  
Oct 27, 2018-Jan 5, 2019 (Chinese) (S)  
Nov 2-Dec 28 (Chinese)

##### GEM 2300 Graduate Colored Stones

Dec 29, 2017-Jun 1, 2018 (Chinese)  
May 18-Oct 5 (Chinese)  
Aug 31, 2018-Jan 25, 2019 (Chinese)

##### Applied Jewelry Professional® (Intensive)

Mar 5-16 (Chinese)  
Aug 13-24 (Chinese)

#### JEWELRY MANUFACTURING ARTS

##### JMA 370 Jewelry Design

Mar 19-May 18 (Chinese)  
Jun 4-Aug 3 (Chinese)  
Oct 15-Dec 14 (Chinese)

## LAB CLASSES AND STUDENT WORKROOMS

### BANGKOK GIAthai.net

#### GEMOLOGY

##### GEM 220L Colored Stone Grading

Jan 22-24  
Jul 9-11  
Sep 17-19

##### GEM 230L Diamond Grading

Jan 8-12  
Jun 25-29  
Sep 3-7

##### GEM 240L Gem Identification

Jan 15-19  
Jul 2-6  
Sep 10-14

##### GEM 149L Pearl Grading

Jan 25  
Jul 12  
Sep 20

#### JEWELRY MANUFACTURING ARTS

##### Quick Design

May 14-18  
Aug 27-31

### BEIJING GIAtaiwan.com.tw

#### GEMOLOGY

##### GEM 220L Colored Stone Grading

Aug 11-13 (Chinese)

##### GEM 230L Diamond Grading

July 30-Aug 32 (Chinese)

##### GEM 240L Gem Identification

Aug 5-9 (Chinese)

### BIRMINGHAM London.GIA.edu

#### GEMOLOGY

##### GEM 230L Diamond Grading

Jul 9-13  
Jul 16-20

### DELHI GIAIndia.in

#### GEMOLOGY

##### GEM220L Colored Stone Grading

Jan 15-17  
Apr 2-4  
Nov 26-28

##### GEM230L Diamond Grading

Jan 8-12  
Mar 26-30  
Apr 16-20  
Jun 11-15  
Sep 10-14  
Nov 19-23  
Dec 17-21

### DUBAI GIAmideast.com

#### GEMOLOGY

##### GEM220L Colored Stone Grading

Mar 18-20  
Jun 10-12  
Nov 4-6

##### GEM230L Diamond Grading

Mar 4-8  
May 20-24  
Aug 19-23  
Oct 21-25

##### GEM240L Gem Identification

Mar 11-15  
Jun 3-Jul 7  
Oct 28-Nov 1

##### GEM140L Pearl Grading

Mar 21  
Jul 13  
Oct 7

### HONG KONG GIAhongkong.com

#### GEMOLOGY

##### GEM 220L Colored Stone Grading

Sep 10-12

##### GEM 230L Diamond Grading

Jan 4-30 (Cantonese) (M, Tu, Th) (N)  
May 28-Jun 28 (Cantonese) (M, Tu, Th) (N)  
Sep 3-7  
Nov 13-Dec 10 (M, Tu, Th) (N)

##### GEM 240L Gem Identification

Sep 17-21

##### GEM 149L Pearl Grading

Apr 18-20 (Cantonese) (W, F) (N)  
Apr 25-27 (W, F) (N)  
Jul 25-27 (Cantonese) (W, F) (N)  
Jul 27  
Dec 14

# 2018 Class Schedules

## LAB CLASSES AND STUDENT WORKROOMS

### LONDON London.GIA.edu

#### GEMOLOGY

##### **GEM 220L Colored Stone Grading**

Feb 26-28  
Oct 8-10

##### **GEM 230L Diamond Grading**

Jan 8-12  
Feb 19-23  
Apr 16-20  
Sep 24-28

##### **GEM 240L Gem Identification**

Jan 15-19  
Apr 23-27  
Oct 1-5

##### **GEM 149L Pearl Grading**

Mar 2  
Oct 11

#### STUDENT WORKROOM

Please call or email for availability:  
T +44 (0) 207 813 4321  
E gialondon@gia.edu  
9:30 a.m. – 4:30 p.m.

Jan 22-Feb 16  
Apr 30-May 25  
Aug 6-31

### MUMBAI GIAindia.in

#### GEMOLOGY

##### **GEM 220L Colored Stone Grading**

Jan 22-24  
Jun 25-27  
Sep 10-12

##### **GEM230L Diamond Grading**

Jan 8-12  
Jan 29-Feb 2  
Feb 19-23  
Mar 19-23  
Apr 9-13  
Apr 30-May 4  
May 21-25  
Jun 11-15  
Jul 23-27  
Aug 27-31  
Oct 29-Nov 2  
Nov 19-23  
Dec 17-21

##### **GEM240L Gem Identification**

Jan 15-19  
Jun 18-22  
Sep 3-7

##### **GEM140L Pearl Grading**

Jan 25  
Jun 28  
Sep 13

### SHANGHAI GIAtaiwan.com.tw

#### GEMOLOGY

##### **GEM 220L Colored Stone Grading**

May 17-19 (Chinese)  
Nov 15-17 (Chinese)

##### **GEM 230L Diamond Grading**

May 5-9 (Chinese)  
Nov 3-7 (Chinese)

##### **GEM 240L Gem Identification**

May 11-15 (Chinese)  
Nov 9-13 (Chinese)

### SHENZHEN GIAtaiwan.com.tw

#### GEMOLOGY

##### **GEM 220L Colored Stone Grading**

Nov 3-5 (Chinese)

##### **GEM 230L Diamond Grading**

Oct 22-26 (Chinese)

##### **GEM 240L Gem Identification**

Oct 28-Nov 1 (Chinese)

### SURAT GIAindia.in

#### GEMOLOGY

##### **GEM230L Diamond Grading**

Feb 5-9  
May 7-11  
Jul 16-20  
Aug 13-17  
Oct 22-26  
Nov 12-16

### TAIWAN GIAtaiwan.com.tw

#### GEMOLOGY

##### **GEM 220L Colored Stone Grading**

Jan 29-31 (Chinese)  
Oct 29-31 (Chinese)

##### **GEM 230L Diamond Grading**

Jan 15-19 (Chinese)  
Mar 19-Apr 13 (Chinese) (M, W, F) (N)  
Jun 2-30 (Chinese) (S)  
Jun 4-8 (Chinese)  
Aug 27-Sep 21 (Chinese) (M, W, F) (N)  
Oct 15-19 (Chinese)  
Oct 27-Nov 24 (Chinese) (S)

##### **GEM 240L Gem Identification**

Jan 22-26 (Chinese)  
Jun 11-15 (Chinese)  
Oct 22-26 (Chinese)

##### **GEM 149L Pearl Grading**

Mar 24 (Chinese) (S)  
Oct 20 (Chinese) (S)

#### STUDENT WORKROOM

Please call or email for availability:  
T +886 2 2771 9391  
E giataiwan@gia.edu

Jan 22-26  
Feb 26-Mar 2  
Mar 19-23  
Apr 16-20  
May 14-18  
Jun 19-22  
Jul 2-6  
Aug 6-10  
Sep 3-7  
Oct 1-5  
Oct 29-Nov 2  
Dec 24-28

### TOKYO giaeducationjapan@gia.edu

#### GEMOLOGY

##### **GEM 230L Diamond Grading**

Feb 19-23  
Apr 23-27  
Jun 25-29  
Aug 20-24  
Oct 15-19  
Dec 10-14

##### **GEM 130B Diamond Essentials Intensive**

Feb 15-16  
Apr 19-20  
Jun 21-22  
Aug 16-17  
Oct 11-12  
Dec 6-7

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GIA program and lab class curricula are standard worldwide, but schedules and specific offerings may vary by location.

To enroll in Distance Education courses where materials are written in English, submit your application to GIA in Carlsbad. To enroll in a Distance Education course where materials are written in any other language, please contact the respective GIA campus.

Contact information for GIA campuses can be found at [GIA.edu/locations](http://GIA.edu/locations)


(N) = Nighttime; (S) = Saturday; (H) = Course includes both on-campus and self-paced study.

**Class Duration:** Please note class schedules may vary depending on holidays and breaks; please review the schedule carefully and plan accordingly.

\* Dates offered on a standby basis. Call for availability. You will be placed on a waiting list until 30 days prior to the start of your program or class when GIA can confirm your space availability. Schedules are subject to change without notice. For a current schedule, visit [GIA.edu/schedules](http://GIA.edu/schedules). Contact the campus to confirm availability and for additional information and details.

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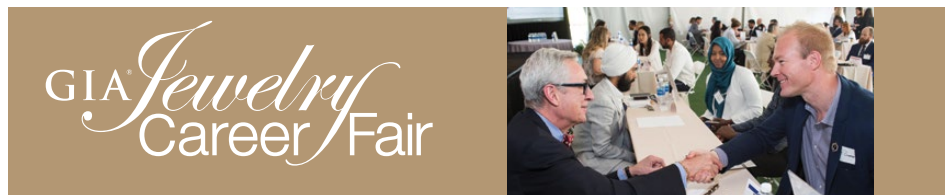


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# GEM TOUR America

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## Explore the Gemological Treasures of the U.S.A.

The United States is home to a wealth of natural resources, including many gemstones and precious metals. We've highlighted locations where you can find and learn more about some of these American treasures. View the article online at [GIA.edu/gem-map](http://GIA.edu/gem-map)



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## Sapphire



Blue sapphire belongs to the mineral species corundum, and ranges in color from pure blue, to greenish blue to violetish blue. The interaction between impurities of iron and titanium cause its color. The name "sapphire" applies to any corundum that's not red and doesn't qualify as ruby, another corundum variety. The most preferred and valuable sapphires are deep color saturations known in the trade as "Royal Blue" and the soft velvety blue called "Cornflower Blue."

**LORE** – Sapphire has traditionally symbolized sincerity, truth, faithfulness and nobility. It was also reputed to cure plague boils, diseases of the eye and be an antidote to poison.

## Diamond



Diamond is the only gem made of a single element – typically about 99.95 percent carbon. The other 0.05 percent can include one or more trace elements, which can influence its color or crystal shape. Diamond forms under high temperature and pressure that exists only within a specific depth range (about 100 miles or 160 kilometers) beneath the earth's surface.

**LORE** – Known as one of the universal symbols of love, diamond is cherished around the world.

## Tourmaline



Tourmalines make up a group of closely related mineral species that share the same crystal structure but have different chemical and physical properties. They share the elements silicon, aluminum, and boron, but contain a complex mixture of other elements such as sodium, lithium, calcium, magnesium, manganese, iron, chromium, vanadium, fluorine and sometimes copper. Very few gems match tourmaline's dazzling range of colors.

**LORE** – Ancient Egyptians thought that tourmaline gathered all the colors while traveling along the rainbow. Its name means "a gem of the rainbow."

## Emerald



Coveted by Spanish conquistadors, Inca kings, Mughals and pharaohs, emerald is the bluish green to green variety of beryl. Trace elements that cause emerald's color include chromium and vanadium. As a general rule, the higher the chromium, or vanadium content, the more intense the green. The most desirable emerald colors are bluish green to pure green with strong to vivid color saturation and medium to medium-dark tone.

**LORE** – Emeralds brought to Europe from Colombia by Spanish Conquistadors helped popularize the gem.

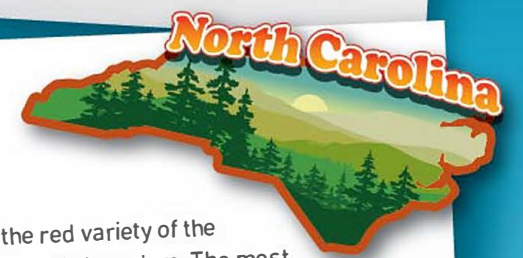
## Turquoise



Turquoise is found in only a few places on Earth, typically in dry and barren regions. It is formed where acidic, copper-rich groundwater seeps downward through deeply altered or broken rocks where it reacts with minerals that contain phosphorus and aluminum. The result of this process is a porous, semi-transparent to opaque hydrous phosphate of copper and aluminum.

**LORE** – The Apache thought turquoise could be found by following a rainbow to its end. The Pueblo believed that turquoise got its color from the sky, while the Hopi thought the gem was produced by lizards scurrying over the earth.

## Ruby



Called "the king of precious stones," ruby is the red variety of the mineral corundum. Its color is caused by traces of chromium. The most sought-after color by collectors is a deep red with a hint of purple, called "pigeon's blood" by those in the gem and jewelry industry. Myanmar (formerly Burma) is home to the most famous ruby mines. Other major sources include Vietnam, Madagascar, Mozambique, Kenya, Tajikistan, Afghanistan and Pakistan.

**LORE** – Early cultures valued rubies for their similarity to the redness of blood, and believed it held the power of life. Many medieval Europeans wore rubies to guarantee health, wealth, wisdom and success in life.

## Sunstone



Sunstone, a member of the feldspar group, can be an orthoclase feldspar or a plagioclase feldspar, depending on chemistry. Both can show aventurescence – a sparkly, metallic-looking luster caused by flat, reflective inclusions. Although most sunstones have yellow, orange or brown bodycolor, not all sunstones are aventurescent.

**LORE** – According to Native American legend, a great warrior was wounded by an arrow and bled on a stone. The blood permeated the stone with his spirit, causing sunstone's color and giving it sacred power.

## Pearl



Coveted for thousands of years as symbols of wealth and status, pearls are formed when a microscopic irritant enters the bodies of certain species of mollusks. There are two types of pearls: natural (formed without human intervention); and cultured (the product of human intervention). Natural pearls are exceptionally rare. There are four types of cultured pearls: akoya, Tahitian, South Sea and freshwater.

**LORE** – Ancients from the Middle East believed that pearls were teardrops fallen from heaven. Christopher Columbus and his contemporaries thought that mollusks formed pearls from dew drops.

Find detailed information about more than 25 gemstones at [GIA.edu/gem-encyclopedia](http://GIA.edu/gem-encyclopedia)

## Museums to Visit

**The Field Museum of Natural History, Chicago, Illinois**  
Magnificent gemstones, minerals and jewelry from around the world will delight you at the Field Museum. The exhibits in the Grainger Hall of Gems show the transformation of gemstone rough into jewelry.  
[fieldmuseum.org](http://fieldmuseum.org)  
T +1 312 922 9410

**Gemological Institute of America® (GIA), Carlsbad, California**  
GIA® in Carlsbad is one of the world's great gemological research facilities and grading centers – and it's also a stunning gem and jewelry museum. Exhibits include *Riches in the Rocks*, brilliant-cut gems and *Symphony in Gemstones*. Check the website for special exhibits including *Centuries of Opulence: Jewels of India* through October 2018. Call 24 hours in advance to schedule a tour.  
[GIA.edu](http://GIA.edu)  
T +1 800 421 7250, ext 4116 E [guestservices@gia.edu](mailto:guestservices@gia.edu)

**Mineral & Gemological Collection at Harvard University, Cambridge, Massachusetts**  
Harvard's museum is home to more than 3,000 specimens. The collection has 1,200 gems from New England allowing you to take a gemological tour of the region within their galleries.  
[mgmh.fas.harvard.edu](http://mgmh.fas.harvard.edu)  
T +1 617 495 3045 E [hmnh@hmnh.harvard.edu](mailto:hmnh@hmnh.harvard.edu)

**Perot Museum of Nature and Science, Dallas, Texas**  
A museum you and your children will be sure to love. In the Lyda Hill Gems and Minerals Hall, you'll find The Eye of Africa, (a spectacularly vivid fluorite crystal from Namibia) and a five-foot-tall amethyst geode. The entire family can participate in a scavenger hunt.  
[perotmuseum.org](http://perotmuseum.org)  
T +1 214 428 5555 E [info@perotmuseum.org](mailto:info@perotmuseum.org)

**Smithsonian Natural Museum of History, Washington, D.C.**  
Waiting for you is the Hope Diamond and the 10,363 carat Dom Pedro aquamarine. After viewing those wonders, you can wander around over 20,000 square feet of the Janet Annenberg Hooker Hall of Geology, Gems, and Minerals permanent exhibit.  
[naturalhistory.si.edu](http://naturalhistory.si.edu)  
T +1 202 633 1000 E [info@si.edu](mailto:info@si.edu)

## Summer Reading

**The Amber Room** by Steve Barry – A room with amber walls disappears when the Allies start bombing Nazi Germany. This historical event serves as the setting for a riveting detective novel. Will Rachel Cutler rediscover one of the world's great lost treasures?  
Adult Mystery/Historical (Fiction)

**The Donovans** series by Elizabeth Lowell – *New York Times* best-selling author Elizabeth Lowell has penned four novels that will delight gem and jewelry lovers. Chronicling the adventures of the gem-trading Donovan family, Lowell's books take readers into the rarified world of precious stones, international intrigue and passionate romance. The first book in the series is *Amber Beach*.  
Adult Romance/Historical (Fiction)

**Priceless** by Marne Davis Kellogg – Kick Keswick runs a prestigious auction house and is a master jewel thief. She changes her ways after a marriage to a Scotland Yard detective, only to discover that a new thief has stolen her signature techniques.  
Adult Suspense/Mystery (Fiction)

**Straight** by Dick Francis – What happens when a jockey inherits his brother's jewelry business...and enemies? Award-winning novelist Dick Francis spins a page-turning tale that you won't be able to put down.  
Adult Mystery/Thriller (Fiction)

**Star Sapphire and the Land of Gems** series by Anthony Pardoe – Star Sapphire (a courageous 10-year-old girl) and Jasper Pebble (a talking gem) make their way through a fantastical universe of gems bubbling with personalities – and agendas. The award-winning novels entertain, educate and evoke comparisons to *Alice in Wonderland*.  
Children 8-12 years (Fiction)

**Smithsonian Handbooks: Gemstones** by Cally Hall – An encyclopedia, *Gemstones* is packed with essential information and stunning photography on 130+ varieties. Comprehensive descriptions of a gem's distinguishing characteristics and quick reference guides make this a handy resource.  
All Ages – Beginners to serious enthusiasts (Non-Fiction)



## Discover These American Gem Mines

**Oceanview Mine**  
San Diego County, California  
Screen for tourmaline, kunzite, morganite and other gems and minerals by sifting through material from the mine's commercial operation. Jeep tours of active mining areas are also available. You can even take home a five-gallon bucket of rocks to screen at home. Reservations required.  
[oceanviewmine.com](http://oceanviewmine.com)  
T +1 760 415 9143  
E [digforgems@gmail.com](mailto:digforgems@gmail.com)

**Royal Peacock Opal Mine**  
Denio, Nevada  
Nevada is known as a significant source of black opals, and the Royal Peacock mine is a large producer of the gem. Guests can sift through unearthed materials (tailings) or dig into the undisturbed hillside. Tool rental is available. Open seasonally.  
[royalpeacock.com](http://royalpeacock.com)  
T +1 773 941 0374  
E [autumn@royalpeacock.com](mailto:autumn@royalpeacock.com)

**Gem Mountain Sapphire Mine**  
Philipsburg, Montana  
In operation since 1892, the Gem Mountain Sapphire Mine is one of the oldest and most significant sapphire mines in the U.S. Guests receive all the tools needed to search through a bucket of sapphire gravel concentrate. Open seasonally. Reservations recommended.  
[gemmountainmt.com](http://gemmountainmt.com)  
T +1 866 459 4367  
E [info@GemMtn.com](mailto:info@GemMtn.com)

**Crater of Diamonds State Park**  
Murfreesboro, Arkansas  
Hunt for diamonds over the eroded surface of a diamond-bearing volcanic crater. There are three ways to search: surface searching (walking and looking); shallow digging; and digging deep holes and hand-sorting the gravel. Bring your own tools or rent them on-site. You might get lucky: 7.44 carat and 2.78 carat diamonds were unearthed in 2017. You might also find amethyst, garnet, jasper, agate and quartz.  
[craterofdiamondsstatepark.com](http://craterofdiamondsstatepark.com)  
T +1 888 287 2757  
E [info@ArkansasStateParks.com](mailto:info@ArkansasStateParks.com)

**Emerald Hollow Mine**  
Hiddenite, North Carolina  
The Emerald Hollow Mine states it's the world's only emerald mine open for public prospecting. Gems found at the site include emerald, aquamarine, sapphire, garnet, topaz, amethyst, citrine, rutile and tourmaline. Prices depend on the type of digging you want to do.  
[emeraldhollowmine.com](http://emeraldhollowmine.com)  
T +1 828 635 1126  
E [info@emeraldhollowmine.com](mailto:info@emeraldhollowmine.com)

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