

Presenters



Alexander Lopez III, RG



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Geology Moment

WHAT ROCK AM I?



Sandstone

HONEYCOMB WEATHERING FROM SALT WEATHERING AND BIOFILMS

CONCRETIONS FROM GROUNDWATER-DEPOSITED CALCIUM CARBONATE

Shore Acres State Park

Coos Bay, Oregon



[Source 1](#), [Source 2](#)

Photo credit: Megan Schettler

Licensing for Geology Careers in Oregon



Oregon State Board of Geologist Examiners
Professionals in Service to Oregonians Since 1977

What do we have to offer today?

- ✓ Introduction to the Oregon State Board of Geologist Examiners (OSBGE)
- ✓ Why does registration (i.e., licensure) exist?
- ✓ What can registration do for you?
- ✓ What is the pathway to registration?

1 OSBGE

2 History and Importance of Licensure

3 Registration Types

4 Benefits of Licensure

5 How to Become Licensed



OSBGE Purpose

Assuring the safety, health, and
welfare of Oregonians with
regard to the public practice of
geology



OSBGE Function

- ✓ Register
- ✓ Promote ethics
- ✓ Respond to complaints
- ✓ Perform outreach
- ✓ Provide education
- ✓ Cooperate with related boards



OSBGE Members and Staff



Ericka Koss, RG, CEG, PE
Chair



Megan Schettler, RG
Vice Chair



Cindy Bartlett, RG
Registrant Member



Adam Reese, RG, CEG
Registrant Member



Paul Edison-Lahm,
Public Member



Ruarri Day-Stirrat, PhD
Ex Officio Member

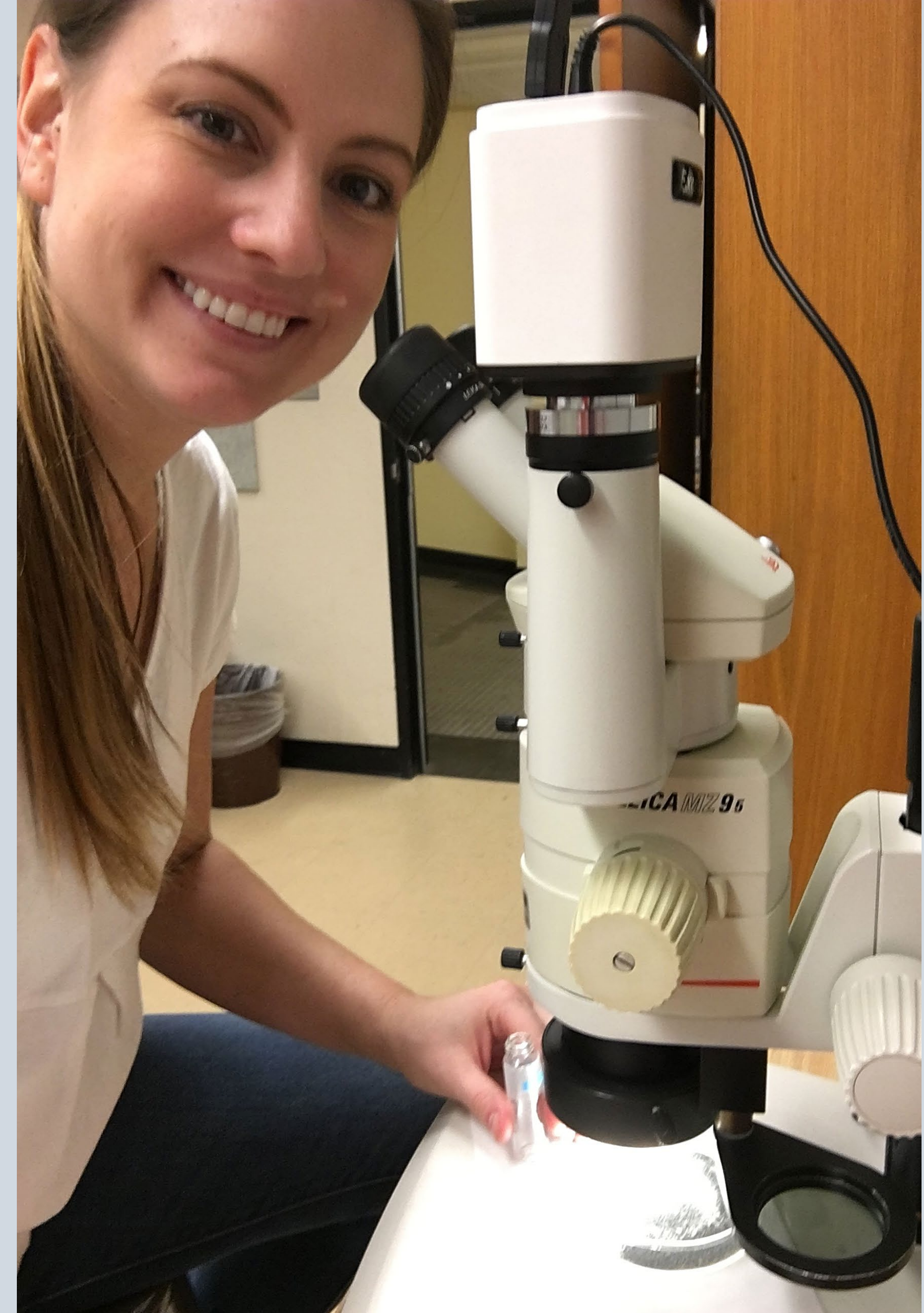


Christine Valentine, MS
Staff Administrator



Marilou Arrobang, BS
Staff Registration Specialist

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Laws governing practice of geology in Oregon enacted 1977

- ✓ Establish minimum standards of **competency**
- ✓ Create **legal responsibility** for work performed
- ✓ In order to protect the health, safety, property, and welfare of the public

Oregon Administrative Rules Chapter 809

Oregon Revised Statutes 672.505 to 672.991

Public Practice in Oregon

Who must be **registered**?

- ✓ Those who perform geological service or work related to public welfare or safeguarding of life, health, property, and environment

Who is **exempted**?

- ✓ Federal or tribal employees
- ✓ University professors
- ✓ Subordinates to RGs and CEGs
- ✓ Private citizens providing testimony at public hearings

How to Establish Competence?

Each state board makes their own requirements.

Generally:

- ✓ Post-secondary education
- ✓ Experience
- ✓ Pass two national exams
- ✓ Additional exam for specialty licenses



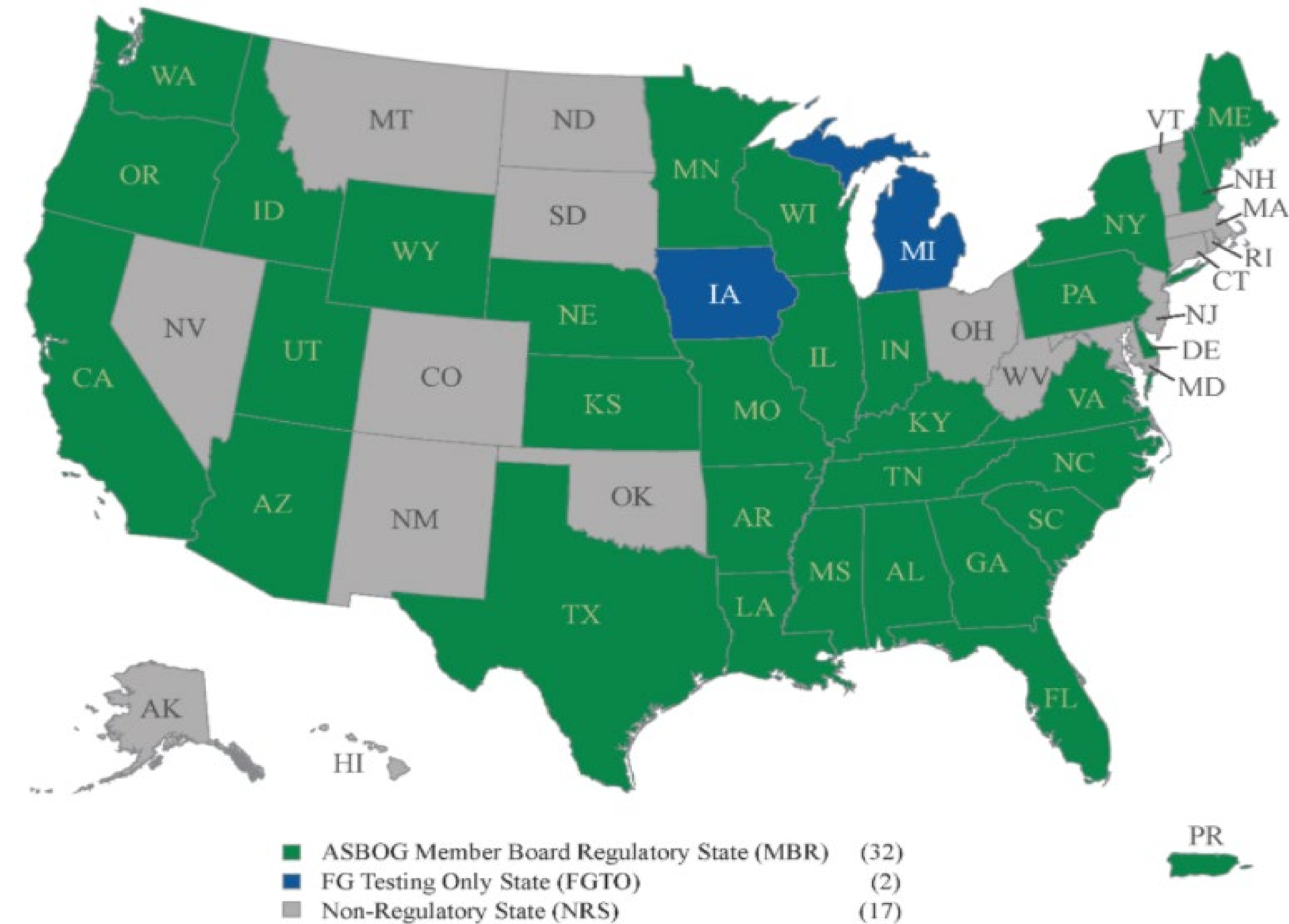
National Association of State Boards of Geology (ASBOG)

- ✓ A separate entity from the Board
- ✓ ASBOG does not grant licenses; they are an examination body
- ✓ ASBOG Council of Examiners meets twice per year to review exam sections
- ✓ Two exams:
 - Fundamentals of Geology (FG)
 - Practice of Geology (PG)



*National Association of State
Boards of Geology*

United States & Puerto Rico



Required in 32 member states & Puerto Rico. Oregon has been a member since 1990.

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Registration Types in Oregon

Geologist-in-Training (GIT)

Registered Geologist (RG)

Certified Engineering Geologist (CEG)

Specialty License



Geologist-in-Training (GIT)

- ✓ Education + pass the FG
- ✓ Optional; title use registration
- ✓ Not a practice registration (i.e., must work under supervision of RG or CEG)
- ✓ Subject to code of professional conduct
- ✓ Stepping-stone to RG license



Geologist-in-Training (GIT)

So... what's the point?

- ✓ Show intent
- ✓ Build technical competence
- ✓ Understand regulations
- ✓ Spread out 8 hours of exams
- ✓ Prepares you for format of next exam



Registered Geologist (RG)

- ✓ Education + experience + pass the FG + PG
- ✓ Independent public practice in responsible charge
- ✓ Can stamp, sign, and date reports
- ✓ Can advertise that they are registered geologists



Certified Engineering Geologist (CEG)

- ✓ Pass FG + RG + specialty exam
- ✓ CEGs must be RGs first
- ✓ Additional authorization to develop, supervise and stamp work that falls under the definition of engineering geology
- ✓ Bridge foundation, landslide repair, residential dwellings



Specialty License

Oregon Statistics:

103 GITs

982 RGs

206 CEGs

~50% of RGs and CEGs are
out of state



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4 **Benefits of Licensure**

5 How to Become Licensed



What can licensure do for me?

- ✓ Required in the majority of U.S. states
- ✓ Increases career opportunities and independence
- ✓ Demonstrates professional responsibility and increases credibility
- ✓ Financial incentive

Preferred Qualifications:

- Master's Degree in Hydrogeology, Geochemistry, Geology, Environmental Science, or related field
- Geologist-In-Training (GIT) or Registered Geologist (RG) license
- 2-4 years of environmental consulting experience
- Quantitative data analysis experience, including flow and transport models, statistical analysis, GIS, or scientific coding (R or Python)
- Current OSHA HAZWOPER 40 hr / 8 hr training

Desired:

- + Prior project experience in the Pacific Northwest is highly desired.+ A Master's Degree in environmental science/hydrogeology, geology, geosciences, or similar field.+ Strong computer skills, including Microsoft Excel, Word, PowerPoint, Access, ArcGIS, MODFLOW, R, Python, etc.+ Strong project management experience of multi-disciplinary teams.+ Experience with environmental statistics and site closure strategies is highly desired.+ Professional Engineer (PE) and/or Professional Geologist (PG) and/or Licensed Hydrogeologist (LHg) and/or Certified Water Rights Examiner (CWRE).+

Other reasons people get licensed:

- ✓ *I started on the academia track and decided to work in industry instead of finishing my PhD. Once here, I wanted to achieve the highest professional certification in our field: the RG.*



Other reasons people get licensed:

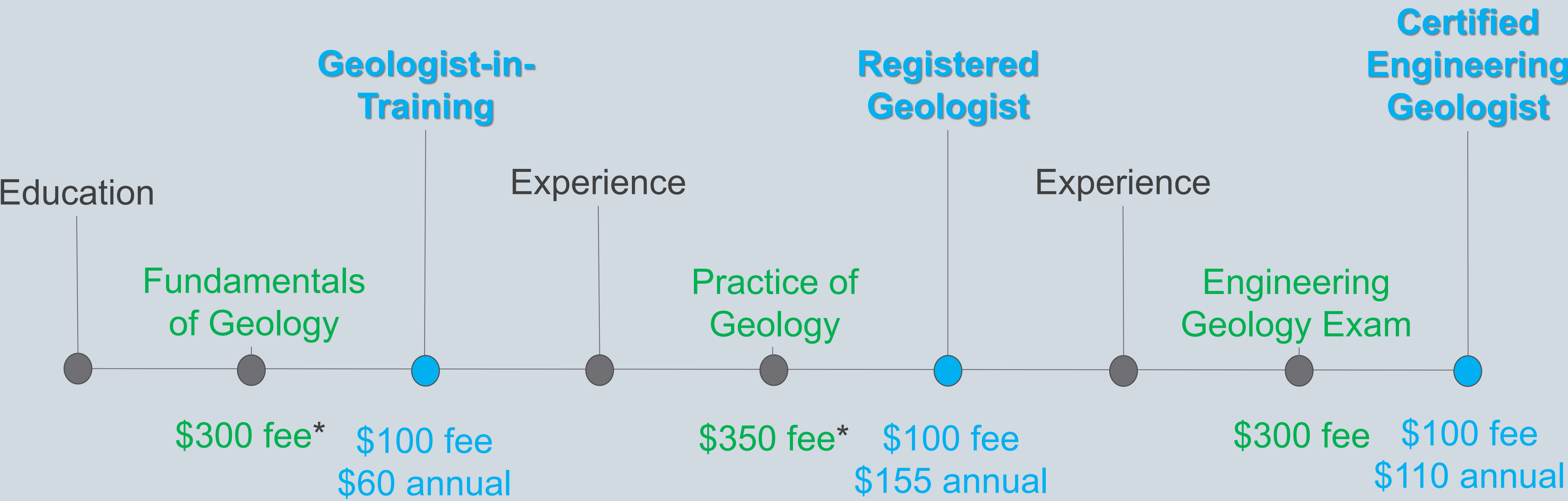
- ✓ *I wanted extra credibility. I also needed to be able to stamp applications for well installations, so the RG expanded my job functions.*
- ✓ *I became licensed to make myself more marketable. I'm on a technical career track, and at a certain point I felt that wouldn't look good I weren't a licensed professional.*



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Pathway to Registration in Oregon



**Anticipated increase in 2023; ASBOG adding CBT seat fee.*

Geoscience Coursework

45 quarter hours (36 upper division); 30 semester hours (24 upper division)

- Climate change science
- Coastal processes
- Economic geology
- Engineering geology
- Environmental geology
- Geochemistry or Hydrogeochemistry
- Geographic Information Systems (GIS)
- Geology field camp
- Geology field methods
- Geomorphology
- Geophysics
- Geostatistics
- Glacial geology
- Groundwater hydrology
- Groundwater modelling
- Historical geology
- Hydrogeology
- Lithology
- Marine geology
- Mineral exploration
- Mineralogy, Optical mineralogy, or Clay mineralogy
- Paleopedology/Paleosols
- Petrography
- Petroleum geology
- Petrology
- Planetology
- Remote sensing
- Rock mechanics
- Sedimentology
- Seismology
- Soil Science
- Stratigraphy
- Structural geology
- Tectonics
- Volcanology



Fundamentals Exam

- ✓ 4-hour exam
- ✓ 140 multiple choice questions
- ✓ Undergraduate knowledge and skills
- ✓ Can take immediately after completing coursework OR...
- ✓ Pass FG → apply for GIT

Practice of Geology Exam

- ✓ 4-hour exam
- ✓ 110 multiple choice questions
- ✓ Knowledge and skills gained from practice
- ✓ After completing education + work experience
- ✓ Pass FG + PG → apply for RG

Note: ASBOG is a separate entity from the Oregon Board! Go to asbog.org for more information.

✓ Visit oregon.gov/osbge for application

✓ Visit asbog.org for exam information

Exams Offered Twice per Year



2022 Spring March 18 • 2022 Fall October 7

Applications due 100 days prior to exam¹

2023 Spring March 17 • 2023 Fall October 6

2024 Spring March 15 • 2024 Fall October 4

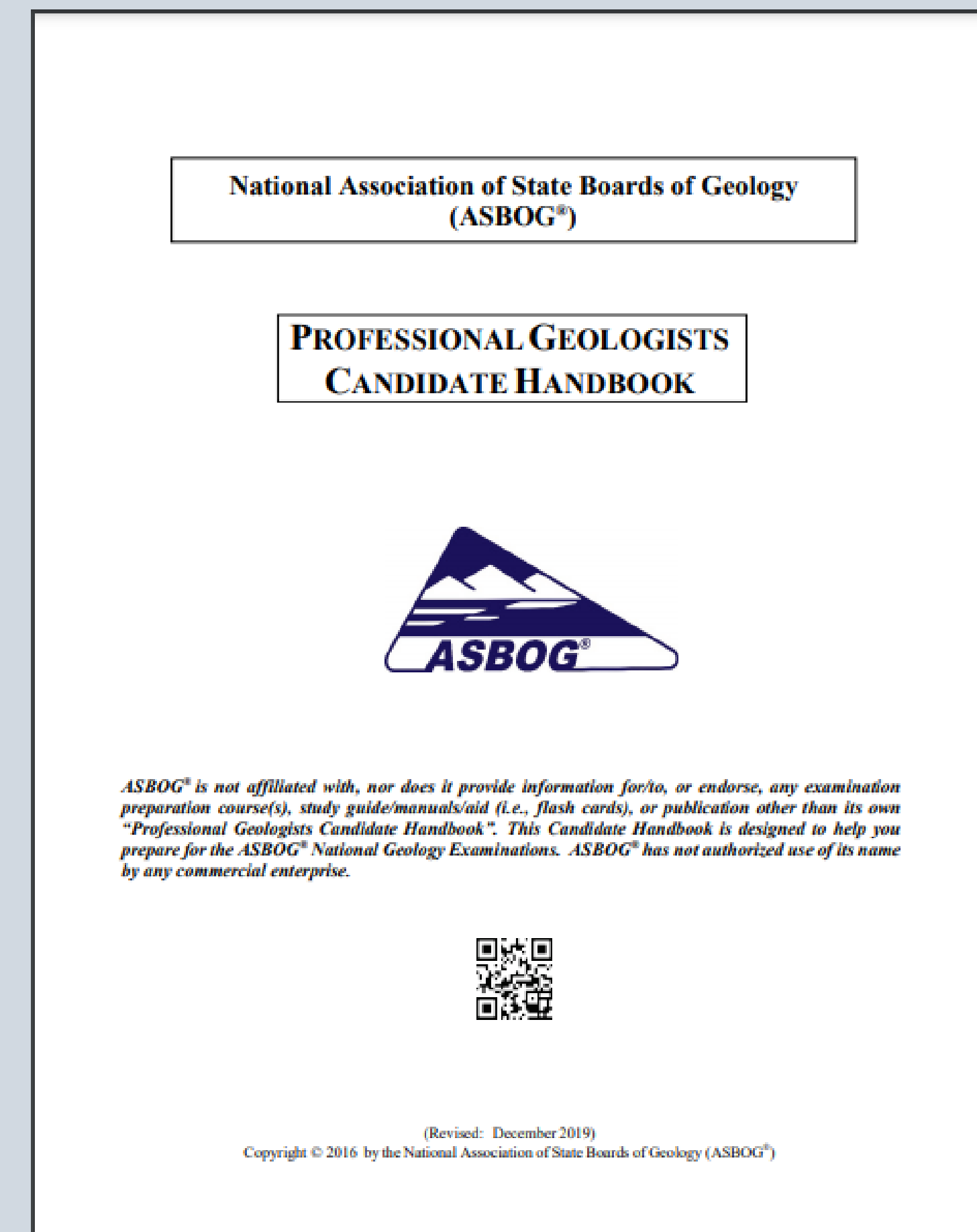
Computer Based Testing

**Possible updates after CBT; verify your application deadline at oregon.gov/osbge*

Resources

ASBOG Candidate Handbook

- ✓ Only official guidance
- ✓ Provided with registration
- ✓ 2019 version available and free at
asbog.org/candidate/candidates.html
- ✓ Breakdown of subjects by percent and sample questions

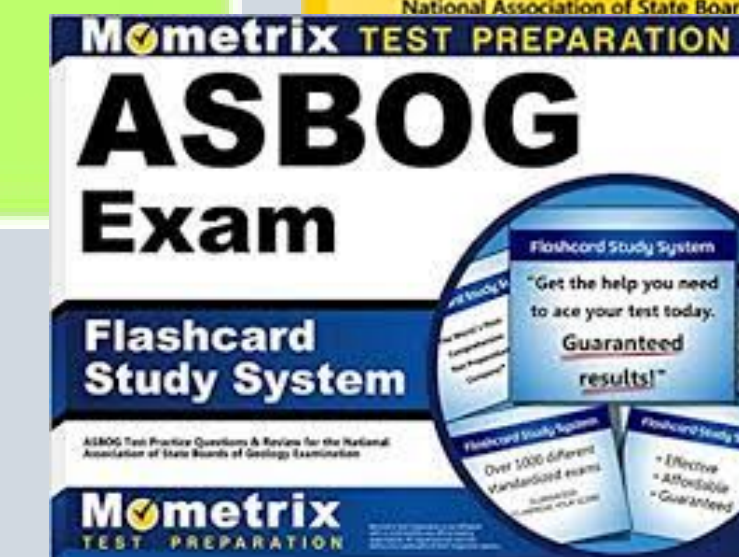
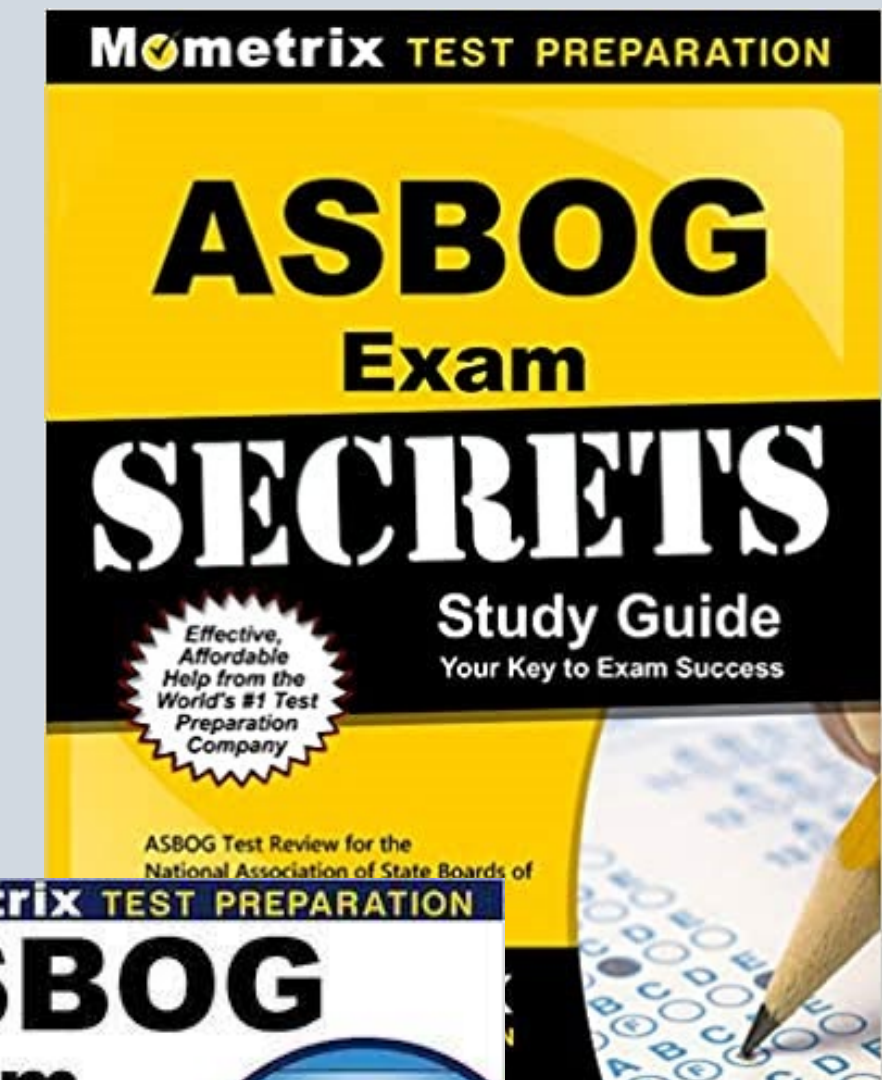
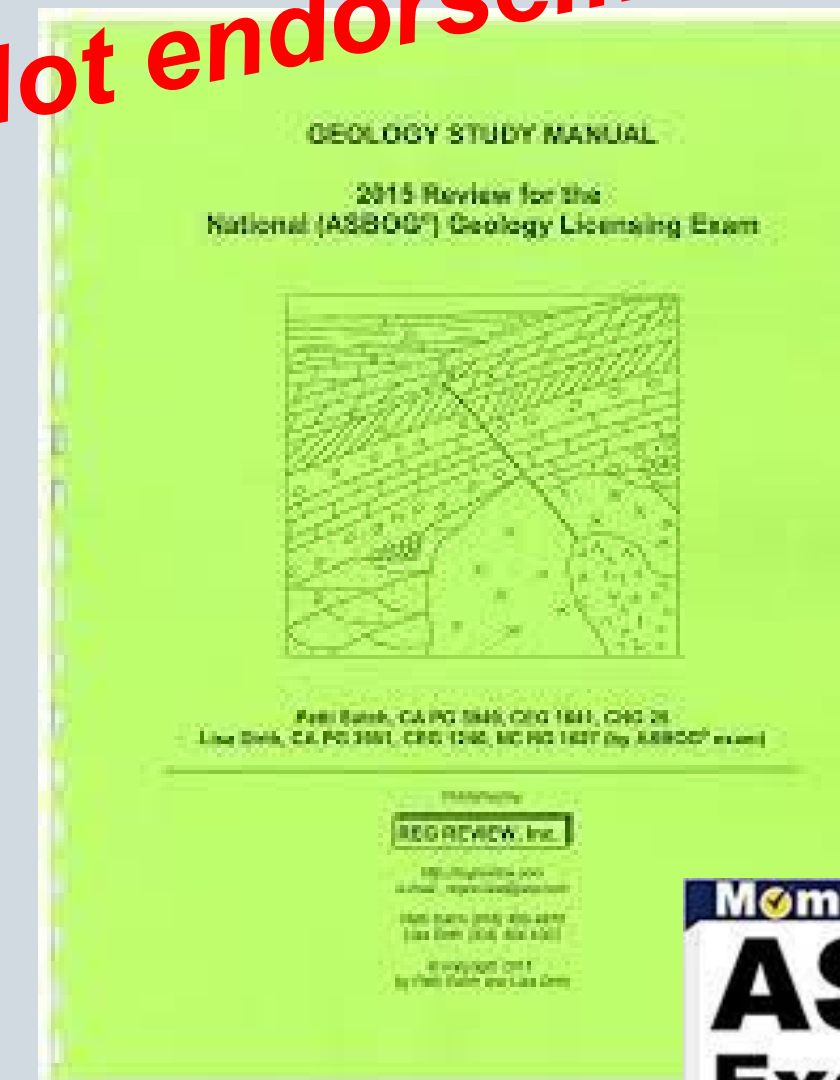


Resources

Other

- ✓ Private market, like REG Review*
- ✓ MIT open courses
- ✓ College textbooks
- ✓ Study blue flashcards
- ✓ List at asbog.org/candidate/candidates.html

***Not endorsements**



Note that any prep info geared towards paper examination will be outdated as of 2023. General exam content will not change.



Photo credit: Marli Miller

visit: oregon.gov/osbge

call: 503.566.2837

e-mail: osbge.info@bgelab.oregon.gov

visit: asbog.org



Photo credit: Chanel Dvorak

Questions?