

EarthScope AGeS Student Geochronology Research and Training Program Laboratory Overview

Desert Research Institute Luminescence Laboratory (DRILL) drill@dri.edu

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On Twitter [@DRILLuminescence](https://twitter.com/DRILLuminescence); [@KeenZebert](https://twitter.com/KeenZebert); [@tweetcmn](https://twitter.com/tweetcmn)

On ResearchGate: [Keen-Zebert](#); [Neudorf](#)

OUR MISSION

Better understand the Earth and its inhabitants through investigation and discovery of Earth's processes and history.

OUR GOALS

- Conduct rigorous investigations of the luminescence properties of Earth materials.
- Apply luminescence dating to geological, geomorphological, and archaeological problems.
 - Train the next generation of geochronologists.
- Be humane, accountable, and sustainable in all of our pursuits.

For technical details about the DRILL, see our website:

<https://www.dri.edu/luminescence-lab>

To find out what kind of projects we have participated in, see our blog site:

<https://theglowcurve.org/>

Check out our virtual guest book from previous AGeS student participants and student visitors:

<https://theglowcurve.org/guestbook/>

We tailor student visits to meet the education needs of the student and to meet the geochronology needed to answer the research question. If you are interested, we can make arrangements for students to receive course credit for visits to the lab through UNR Academic Credit Options. Through a flexible approach to arranging visits, we provide students with hands-on training in each step of defining their luminescence ages during a short on-site visit and then continued coaching through video and phone conferencing. Previous on-site visits have ranged from 2 weeks to a few months.

Contact us prior to collecting samples. We will discuss the best approach to sampling, arranging your training experience, dating your samples, and answering your research questions.

Fees: \$1166/sample regardless of the type of analyses (single grain, multi-grain, quartz, feldspar).

Training fee: No extra fees for training, but we would love for you to come to our workshop in the beautiful Sierra Mtns and in the Basin and Range around Reno. For more info: <https://theglowcurve.org/short-course/>.

Expected Time Frames: The sooner we know about your project, the better we can plan. We can typically accept visitors in as little as 1 month's advance notice. We prefer to receive samples in advance of an on-site visit. We do the majority of preparation in advance of student arrival, so that students can focus on developing the higher level skills of analyzing the data, conducting data reduction, evaluating ages, and interpretation. While on-site, students learn how to operate instrumentation, develop analysis sequences, perform data reduction, model the data, calculate ages, and evaluate the quality of an age.

Plan for a minimum 2-week visit and contact the lab director or manager in advance to schedule the visit: drill@dri.edu.

Training will be conducted by: Christina Neudorf (DRILL Manager) and Amanda Keen-Zebert (DRILL Director). For more info about us, to check out our CVs, and find out who else you might see in the lab, visit our Team page on the DRILL blog site: <https://theglowcurve.org/team/>.

Get in touch to discuss your training and geochronology needs: drill@dri.edu. This email address goes to both Christina and Amanda, so one of us will reply ASAP!

P.S. You will get a free lab t-shirt and stickers when you visit and we definitely have the best swag!