

Greetings from the Facility for Rare Isotope Beams ([FRIB](#)) and the National Superconducting Cyclotron Laboratory ([NSCL](#))! Our laboratory cares very much about sharing our research with the public, and we hope that you or someone you know might be interested in our updated remote-education offerings!

**Check out our laboratory's page of [digital education resources for nuclear science](#)!** The resources include a game, YouTube videos, and downloadable activities.

The following remote-education opportunities ([see flier](#)) are available by appointment for groups of 10+:

- **Virtual tour** - a live 60-minute presentation where the speaker “guides” you through our research spaces by viewing photospheres. It can be combined with an activity listed below.
- **Talks** - a live 60-minute presentation that can be combined with an activity listed below.
  - **FRIB Research** - an overview of what NSCL has done, what FRIB will do better, and the goals of nuclear science
  - **Careers in Science** - how physicists, chemists, mathematicians, plumbers, welders, machinists, computer scientists, and many more are needed to make cutting-edge science work
  - **(Almost) 14 Billion Years of Nuclei** - explore what we know about the origins of the 92 naturally-occurring elements from Big Bang nucleosynthesis to recently-discovered neutron-star mergers (this can include the sequence of activities below)
  - **Fantastic Nuclei and Where to Find Them** - discover how our researchers are producing the kinds of nuclei only found in stars and recreating stellar reactions with next-generation accelerators
  - **Meet a Scientist** - talk directly with one or more nuclear researchers to discuss how they got into the nuclear field and what they're working on now
- **Activities** - hands-on simulations using household items!
  - **Introduction to Isotopes** (30-60 minutes, depending on detail) - building and naming nuclei with a simple model, then learning to read the chart of nuclides - participants will be provided with materials that they can print, but it is not required
  - **Detecting and Modeling Invisible Nuclei** (15-20 minutes) - learning to measure through indirect observations, comparing evidence with models
  - **How the Universe Made the Elements** (90+ minutes, includes “14 Billion” talk above) - sequence of activities demonstrating how to fill the periodic table of elements - participants will be provided with materials that they can print, but it is not required

Contact [visits@frib.msu.edu](mailto:visits@frib.msu.edu) if you have any questions or to make an appointment for any of the above. You're also welcome to request other alternatives, and we will try to accommodate you!

Thank you,  
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P.S. My friends in MSU Engineering asked me to share their [upcoming Preview Week event](#) as well!