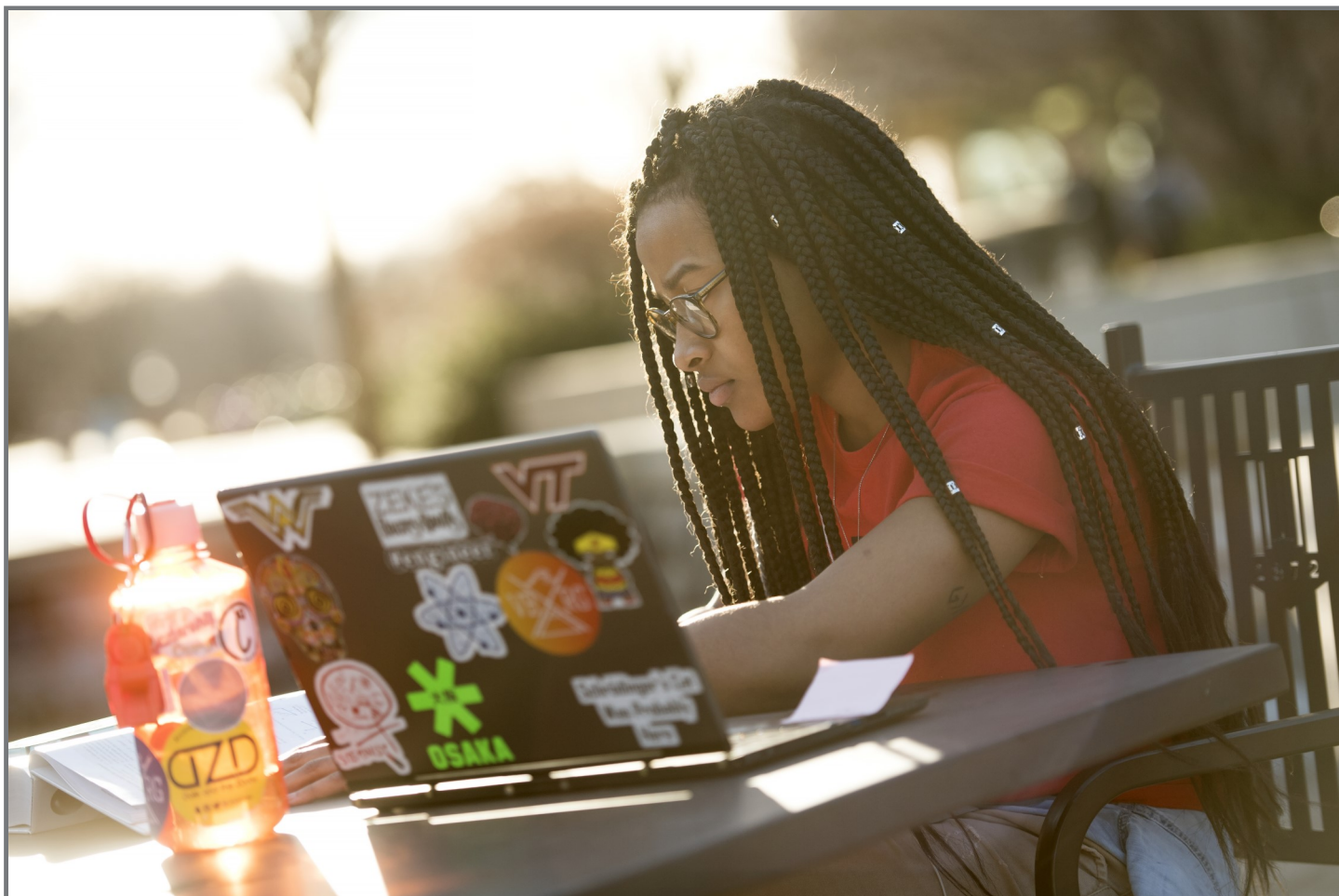


PhD in Nuclear Engineering

Blacksburg and Northern Virginia



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RESEARCH FOCUS AREAS

- * Nuclear power
- * Security
- * Medicine
- * Policy

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Degrees offered at two campuses: Blacksburg and Northern Virginia.

Blacksburg Faculty Research Areas

Juliana Pacheco Duarte
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Nuclear safety analysis; thermal-hydraulic systems; experimental and computational two-phase flow; boiling and condensation phenomena; subchannel analysis; advanced light water reactor; small modular reactors; inverse heat transfer problems

Yang Liu
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Nuclear thermal hydraulics and reactor safety; two-phase flow modeling, instrumentation and experimentation; two-phase flow computational fluid dynamics; advanced passive safety system design

Mark Pierson
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Radioisotope betavoltaic batteries; nuclear fuel cycle; nuclear security, nonproliferation and safeguards; radiation transport, radiation detection and measurement; nuclear power plant operations and safety; fusion demonstration reactor for research and educational outreach

Jinsuo Zhang
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Nuclear materials compatibility, corrosion and degradation; nuclear fuel materials, nuclear fuel cycle technology, electrochemical separation, nuclear safeguards and nonproliferation, advanced coolant materials (molten salt, liquid metal)

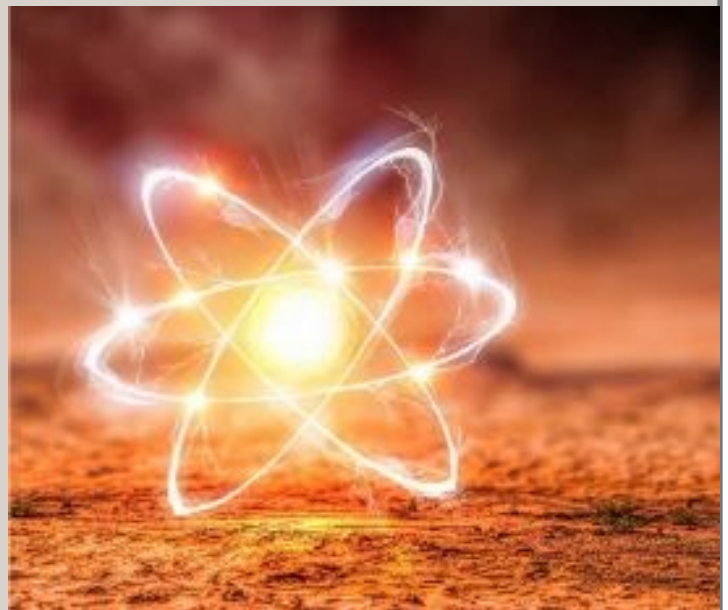
Northern Virginia Faculty Research Areas

Alireza Haghghat
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Advanced particle transport method development; advanced particle transport code development; virtual reality systems for scientific computing; nuclear system design and analysis using particle transport methods; advanced core reactor design

Celine Hin
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Theoretical physical metallurgy; nuclear materials and radiation effects; behavior of materials under extreme environments; statistical physics; atomic physics; thermoelectric properties; electrochemistry; analytical and numerical method development



Slovenia
experience:
study abroad
semester



Funding
opportunities
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