

## Research Associate

### Environmental Sensing for the Arctic

The University of Virginia's recently launched Pan-University Environmental Resilience Institute (ERI) is focused on exploring the impact of rapid environmental and social changes on a planetary scale, and supports pioneering work that integrates knowledge about natural systems, technology, and human behavior to inform choices about our future. Leveraging strengths across the university in environmental science & engineering, social sciences, business, law, humanities, art, and design, the Institute supports transdisciplinary research projects with a strong emphasis on actionable science that can be translated to decision-makers and stakeholders.

The UVArctic CoLab seeks to hire a research associate to collaborate with our interdisciplinary team on research, development, and in-situ testing and application of both exterior and interior environmental sensing systems in the Arctic. We seek a colleague who will contribute technical expertise, as well as their own research interests, to a dynamic team of leading researchers in Arctic science, engineering, art, and design. Whereas the research associate must have technical skills in environmental sensor development and application (e.g. design and fabrication, data logging & telemetry), the applied nature of the research is broad and experimental and seeks to identify the potentials of disciplinary intersections.

Ultimately, the research associate could either support the research of one of the current PIs, conduct interdisciplinary research among the PIs, or bring a completely different field into our existing collaboration. The information collected in the environmental sensing effort will directly facilitate research for several lines of inquiry within the Arctic CoLab that are focused on understanding the complex interactions and transformations underway in the built and natural environment.

We are currently focused on an installation at Utqiagvik (formerly Barrow), on the northern coast of Alaska. The research associate will be directly supervised and mentored by a subset of the Arctic CoLab faculty, will work in the context of the new Link Lab <https://engineering.virginia.edu/linklab>), a new facility for research on cyber-physical systems (e.g. smart buildings, resilient infrastructure) at the University of Virginia, and interact with the entire UVArctic CoLab team.

Candidates must have a Ph.D. in a field closely related to the theme of the institute. To apply, go to <https://jobs.virginia.edu> and search for posting #0622804. To evaluate candidates' interest and ability working in the types of transdisciplinary environments that the Institute seeks to foster, we ask that you complete a candidate profile and attach a cover letter, CV, and statement of research interests to include experience within the broad area of environmental resilience and sustainability, as well as results of research, development, and implementation of remote sensing arrays and networks ideally in extreme environmental conditions (under attachment selection "other"), and a list of three references including contact information.

For questions on the Resilience Institute, please contact Andres Clarens ([andres@virginia.edu](mailto:andres@virginia.edu)). For questions specifically on the UVArctic CoLab position, please contact Howard Epstein

(hee2b@virginia.edu). Additional information about the Institute can be found at <https://www.virginia.edu/vpr/resilience/>

For questions on the application process, please contact Rich Haverstrom at rkh6j@virginia.edu.

The University of Virginia is an equal opportunity and affirmative action employer. Women, minorities, veterans, and persons with disabilities are encouraged to apply.