Units conducting the featured University of Alaska RESEARCH FOR INTERIOR ALASKA

ASSISTING COMMUNITIES
- UAF, International Arctic Research Center, as part of the Alaska Fire Science Consortium

ENERGY
- UAF, College of Engineering and Mines, Institute of Northern Engineering, Alaska Center for Energy and Power

HOUSING
- UAF, College of Engineering and Mines, Institute of Northern Engineering
- UAF, International Arctic Research Center, as part of the Alaska Fire Science Consortium

HEALTH & SAFETY
- UAF, International Arctic Research Center, Alaska Center for Climate Assessment and Policy and Alaska Climate Science Center
- UAF, Institute of Arctic Biology and College of Rural and Community Development
- UAF, Institute of Arctic Biology, Center for Alaska Native Health Research

MINING
- UAF, College of Engineering and Mines, Institute of Northern Engineering, Petroleum Development Laboratory

TRANSPORTATION
- UAF, College of Engineering and Mines, Institute of Northern Engineering
- UAF, International Arctic Research Center, Alaska Center for Climate Assessment and Policy

UA RESEARCH PUSHES ALASKA’S ECONOMY FORWARD

What’s ahead for INTERIOR

Alaska’s interior stretches from the Arctic Circle in the north to the westernmost U.S. territorial boundary with Canada in the east. This region is characterized by its vastness, rich natural resources, and remote communities.

The University of Alaska (UA) plays a crucial role in advancing research and education in the interior. UA researchers work with communities and industries to address challenges and capitalize on opportunities presented by the region’s unique geography and resources.

Key areas of focus include:
- **Assisting Communities**
  - UAF, International Arctic Research Center, as part of the Alaska Fire Science Consortium

- **Energy**
  - UAF, College of Engineering and Mines, Institute of Northern Engineering, Alaska Center for Energy and Power

- **Housing**
  - UAF, College of Engineering and Mines, Institute of Northern Engineering
  - UAF, International Arctic Research Center, as part of the Alaska Fire Science Consortium

- **Health & Safety**
  - UAF, International Arctic Research Center, Alaska Center for Climate Assessment and Policy and Alaska Climate Science Center
  - UAF, Institute of Arctic Biology and College of Rural and Community Development
  - UAF, Institute of Arctic Biology, Center for Alaska Native Health Research

- **Mining**
  - UAF, College of Engineering and Mines, Institute of Northern Engineering, Petroleum Development Laboratory

- **Transportation**
  - UAF, College of Engineering and Mines, Institute of Northern Engineering
  - UAF, International Arctic Research Center, Alaska Center for Climate Assessment and Policy

UA’s research in the interior is not only about economic development but also about sustainability, resilience, and quality of life for the communities that call this region home. Through partnerships with local and state agencies, industries, and communities, UA researchers are working to ensure a prosperous future for Alaska’s interior.
**INTERIOR**

**ASSISTING COMMUNITIES**
- Providing targeted and short-term forecasting for fire managers in Interior Alaska for the first time

**MINING**
- Developing unmanned systems, on land and in the air, for Interior Alaska mine rescue operations and safety training
- Promoting safe, effective mine rescue operations and enacting mining technology training for the unemployed
- Improving Alaska’s underground mining operations
- Designing and enhancing mining vocational training in Alaska with strong industry support

**TRANSPORTATION**
- Working to improve preparedness and response to annual springtime flooding in Alaska
- Developing effective and easily adoptable flood risk mitigation and recovery strategies for rural Alaska communities
- Monitoring unstable frozen rubble moving toward the Dalton Highway and trans-Alaska oil pipeline

**ENERGY**
- Working to lower the cost of inland river energy
- Advancing water power as a renewable energy
- Focusing on rural Alaska community power grids to develop kinetic energy storage systems

**HOUSING**
- Studying ways to protect Interior homes and communities at risk from wildland fire
- Evaluating risk perceptions and the willingness to pursue supplementary private wildfire mitigation efforts

**HEALTH & SAFETY**
- Projecting how extreme events will change across Alaska in our current century to better understand natural hazards and human vulnerability
- Linking local knowledge and scholarly expertise for sustainable change in vitamin D insufficiency, focusing on young Yup’ik people
- Helping to position Alaska Native communities as guides for a practical program of suicide prevention research

Researchers with UAF’s Alaska Center for Energy and Power test a turbine that produces electricity from a river’s current. UAF fisheries undergraduate student Stephanie Jump interned with the Alaska Department of Fish and Game monitoring the potential impacts of such hydrokinetic generators on migrating fish populations.

Every dollar invested in research brings from four to six dollars to Alaska.