

Student education and training

Through its projects, data resources, and collaborations, EESI supports students interested in Earth science and environmental research. Students gain valuable experience working as EESI Environmental Scholars, contributing to various laboratory experiments, taking EESI-funded field trips, and joining in other EESI activities.

Outreach

EESI's faculty communicate research findings to academic and practitioner audiences. This is accomplished via publications, presentations, and websites that are often designed and executed after consultation with the Institute's outreach support groups. Staff members can assist faculty and students in developing new and innovative approaches to the creation and dissemination of environmental information resources and facilitate their delivery to individuals, communities, and organizations within the Commonwealth, the nation, and the world.



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PennState
College of Earth
and Mineral Sciences

Earth and Environmental
Systems Institute

Research. Happens. Here.



Building an extraordinary community of scholars who
cross boundaries to understand the Earth system,
how it affects people, and how people affect it.

eesi.psu.edu

About EESI

EESI is one of the nation's leading institutes in Earth and environmental sciences research. Its diverse, world-renowned faculty members are engaged in transdisciplinary research on some of the most compelling problems and issues of our time. EESI is part of Penn State's College of Earth and Mineral Sciences (EMS) and the Institutes of Energy and the Environment (IEE).

Mission

- To encourage the interdisciplinary examination of the links between Earth's chemical, physical, and biological processes by supporting faculty, student, and postdoctoral research on Earth sciences and environmental issues;
- To facilitate the dissemination of research findings through publications, presentations, web pages, workshops, seminars, testimony to public agencies, and advice to public and private organizations and agencies; and
- To develop innovative, interdisciplinary research and education programs that benefit internal and external stakeholders.

Innovative, transdisciplinary programs

The institute endeavors to develop initiatives and centers that focus on compelling scientific, social, and engineering issues and problems that require the expertise of more than a single researcher or even a single department. The expertise and strengths of academic departments in EMS often provide the foundation for these interdisciplinary initiatives and centers. The resources of



the institute are designed to create added opportunities for faculty and students and to act as a catalyst for innovative, collaborative research.

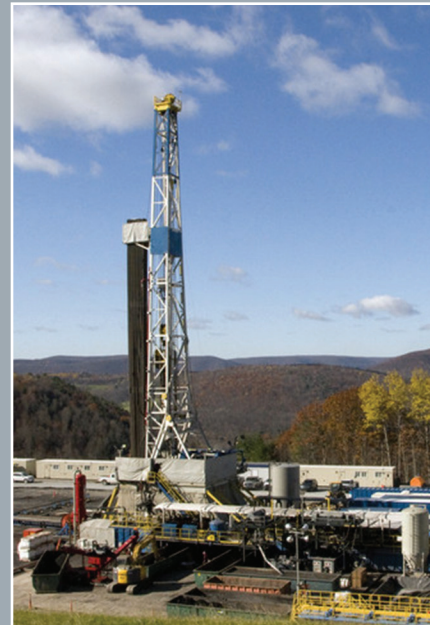
Watershed specialist Brandon Forsythe (left) and graduate student Myriah Wadley measure stream discharge.

Research Support

The institute provides high-quality support services through its budget, grant management, computing, and outreach personnel. Proposal development, external funding searches, editorial assistance, and conference support services are available to institute faculty as well.

Research centers, initiatives, and sites supported

- Center for Environmental Informatics
- Center for Landscape Dynamics
- Center for Climate Risk Management
- Energy and Environmental Economics and Policy Initiative
- Earth System Science Center
- Marcellus Center for Outreach and Research
- Network for Sustainable Climate Risk Management
- Penn State Ice and Climate Exploration Center
- Riparia
- Susquehanna/Shale Hills Critical Zone Observatory



Professor Ken Davis (left) and Penn State alums Hannah Halliday and Bianca Baier stand in front of the C-130 they flew aboard on a NASA-funded project to explore how weather impacts the flow of greenhouse gases.

Marcellus Shale gas drilling well site near Wellsboro, Pennsylvania.