

# THE NCAR EARTH OBSERVING LABORATORY

EOL's primary mission is to provide leadership in observing facilities, field project support, and research and data services needed to advance the scientific understanding of the Earth system. EOL manages the majority of the National Science Foundation's Lower Atmosphere Observing Facilities and deploys them in support of observational field campaigns for researchers from universities, government agencies, and NCAR and in support of education.



**EOL is an end-to-end  
observational science enterprise.**

## COMMUNITY RESOURCES

### DEPLOYMENT

EOL has over 40 years of experience in observational field program execution and support. We have been serving the NSF-funded atmospheric research community primarily by offering scientific, technical, operational, data, and logistics support. Facilities available for deployment include aircraft, radars, lidars, surface and sounding systems, and a range of other in-situ and remote sensing instruments.

Visit [www.eol.ucar.edu/deployment](http://www.eol.ucar.edu/deployment)



### DEVELOPMENT

By working closely with the scientific community, EOL identifies development priorities and actively develops new observational technologies while staying abreast of emerging trends, technologies, and applications in order to enhance and improve our measurement capabilities. We also provide high-level engineering and technical expertise, mechanical design, and fabrication to a broad observational research community.

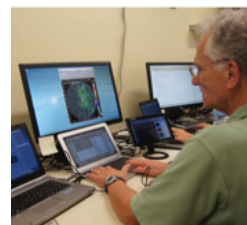
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### DATA SERVICES

EOL supports the scientific community by delivering high-quality observational data and metadata from the field campaigns we support in ways that are transparent, secure, and easily accessible. EOL's platforms and instruments collect large and often unique data sets that once validated are archived and made available to the research community. From collection to validation to archiving, EOL's data services are committed to the highest standard of data stewardship.

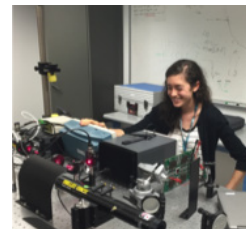
Visit [www.eol.ucar.edu/data-services](http://www.eol.ucar.edu/data-services)



## DISCOVERY

As part of its mission, EOL scientists are active contributors to observational and measurement science research. EOL also promotes curiosity about the Earth system and particularly fosters advanced understanding of the processes involved in observational research. EOL strives to inspire the next generation of observational scientists and engineers by offering a range of educational, experiential, and outreach opportunities.

Visit [www.eol.ucar.edu/discovery](http://www.eol.ucar.edu/discovery)



## OPPORTUNITIES

### REQUEST LOWER ATMOSPHERE OBSERVING FACILITIES (LAOF)

NSF, through its LAOF program, sponsors a suite of multi-user facilities, instrumentation, and services in support of geosciences research. Observational facilities include research aircraft, radars, lidars, and surface and soundings systems. Resources are available on a competitive basis to qualified researchers from U.S. universities at no additional cost to their NSF grants. Facilities can be requested twice annually up to two years in advance of a scheduled campaign.

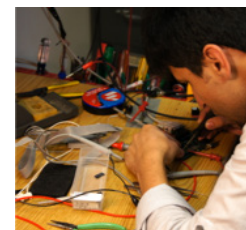
Visit [www.eol.ucar.edu/request-lower-atmosphere-observing-facilities](http://www.eol.ucar.edu/request-lower-atmosphere-observing-facilities)



### SUMMER INTERNSHIP

NSF, through its LAOF program, sponsors a suite of multi-user facilities, instrumentation, and services in support of geosciences research. Observational facilities include research aircraft, radars, lidars, and surface and soundings systems. Resources are available on a competitive basis to qualified researchers from U.S. universities at no additional cost to their NSF grants. Facilities can be requested twice annually up to two years in advance of a scheduled campaign.

Visit [www.eol.ucar.edu/super](http://www.eol.ucar.edu/super)



## JOIN OUR TEAM

Be part of a team that works with scientists to follow a project through from concept to system design, hardware or software development, and data collection throughout the world. EOL team members may be found flying over the Antarctic or swooping over the Pacific Ocean from 100 feet to 40,000 feet, and deploying ground-tower networks in some of the most remarkable settings on the planet.

Visit [www.eol.ucar.edu/join-our-team](http://www.eol.ucar.edu/join-our-team)

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## ON THE WEB

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