

World Water at UC Davis is seeking **applications** for a National Science Foundation **International Research Experiences for Students** (IRES) program, in partnership with IHE Delft:

Advanced Studies Institute in
**International Approaches to
Freshwater Ecosystem
Sustainability & Management**

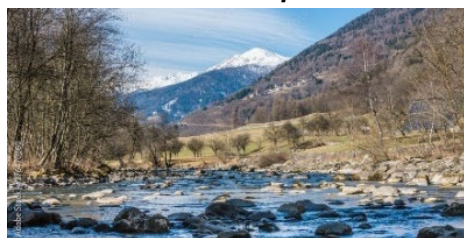
June 27-July 12, 2025

Davis, California; Trento, Italy;

s& Delft, Netherlands



Italian Alps



Participants:

10-12 MS, PhD, or Law students doing research in water science, ecology, engineering, or management

Awards:

Awards will cover travel and program expenses, incl. travel to and within Europe.

Application Deadline: April 11, 2025

ASI Eligibility

- Must be a MS, PhD, or Law student enrolled full-time in a US-based graduate program, including in fall of 2025.
- Must be doing research in a water-related field, with priority for freshwater science, engineering, or management.
- Must be available for the full duration of activities, including participation in the summative group project (see schedule).
- Must be a US citizen or documented permanent resident

Why You Want to Attend:

Water shortages are leading to growing societal impacts, including food insecurity, economic impacts, and declining biodiversity. The search for solutions needs to draw upon the talents and innovative ideas of scientists, engineers, and societal leaders worldwide to overcome traditional and nationalistic paradigms that have so far been inadequate to meeting these challenges.

To Apply:

To begin an application, **visit: tinyurl.com/cryncx5e**

You will be asked to enter information about yourself, including:

- A 200-300 word summary of your own research focus
- A 200-300 word statement of your interest in water management
- A 200-300 word statement about international collaborative science

In addition, you will be asked to send:

- An unofficial copy of your most recent academic transcript
- Arrange for a nomination letter sent by your primary research advisor

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2025	Activities
June 27 (Fri)	Arrive Sacramento/Davis
June 28-30 (Sat-Mon)	Pre-Institute: 3-day field tour through the Yuba River basin in the Sierra Nevada range. Students will explore freshwater management strategies in California and the US.
July 1 (Tues)	Depart Sacramento
July 2 (Weds)	Arrive Verona, Italy
July 3-5 (Thurs-Sat)	3-day field tour through the Noche-Adige River basin in Northern Italy. Students will explore freshwater ecosystem management strategies in Italy and the EU. Fly Venice-Amsterdam
July 6 (Sun)	Rest day in Delft
July 7 (Mon)	Sustainable water management and the challenges of coping with hydrological extremes, in particular floods and droughts under a changing climate, with a focus on the role of ecosystem services. Case studies will be presented and discussed in small working groups.
July 8 (Tues)	Holistic approaches to stream restoration, including nature-based solutions such as floodplain reconnection, environmental flows, natural habitat rehabilitation, and emerging concepts of green infrastructure and river resiliency. Case studies will be presented and discussed in small working groups.
July 9 (Weds)	Field trip to Blauwe Kamer, a floodplain reconnection site, via bike tour with presentations from local managers.
July 10 (Thurs)	International approaches to ecosystem governance and policy, including freshwater resource planning and legal aspects, public policy and regulation, as well as institutional aspects and stakeholder involvement. Assessment of ecosystem policies in different countries will be compared and discussed in small working groups.
July 11 (Fri)	Post-Institute: Student analysis leading to a synthesis comparing and contrasting regional paradigms in freshwater ecosystem management. This synthesis will result in a content-rich, public-facing website and preparation of an European Geophysical Union poster.
July 12 (Sat)	Depart Amsterdam

For interest in the Delft-based Summer School only (July 7-11, 2025), please see <https://worldwater.ucdavis.edu/freshwater-ecosystems> (NSF funding not available: fees may apply)

