



## **ACTION ITEM**

Consideration and Possible Approval of a Contract with the Regents of the University of California San Diego (UCSD), California Sea Grant (Sea Grant) for the 2024 Class of Delta Science Fellows and 2024/2025 Classes of State Policy Fellows

### **Summary**

The Delta Science Program in collaboration with UCSD and Sea Grant. initiates, evaluates, and provides funding for research to enhance our understanding of the Bay-Delta system. The program is committed to providing fellowship opportunities for early-career scientists and supports the professional development, growth, and diversity of the scientific community in the area. Council staff requests the Council to approve a new contract with the Regents of the University of California, San Diego California Sea Grant, in an amount not to exceed \$2,303,194, for the class of 2024 Delta Science Fellows Program and the class of 2024/2025 Delta State Policy Fellows Program. The initial contract term would be up to 3 years with the option to amend to extend the contract term up to one additional year with no additional cost. The current request for a new contract with UCSD, Sea Grant will fund ten State Policy Fellows (five each for calendar year 2024 and 2025).

### **Requested Action**

Council staff requests that the Council approve Resolution 2023-06, granting authority to the Executive Officer, or delegee, to execute a new contract agreement, and any amendments, with UCSD, Sea Grant in the amount not to exceed \$2,303,194 for an initial contract term of up to three years with the option to amend to extend the contract term up to one additional year with no additional cost.

The Executive Officer has delegated authority to execute agreements up to \$750,000. Because the total exceeds the delegated amount, Council approval is required.

## Background

Since 2003, the Delta Science Program has partnered with UCSD, Sea Grant to fund Delta Science Fellows (graduate students and postdocs conducting research at academic institutions) and State Policy Fellows (recent graduates with advanced degrees who work in the Council's offices in support of the Council's priorities). Since 2003, 115 graduate and post-graduate level researchers have been supported through the Delta Science Fellows program. The partnership expanded in 2013 to include the State Policy Fellows and has since supported 40 scientists.

Sea Grant sponsors and administers scientific research, fellowships, and panels of scientific advisors that contribute to the growing body of knowledge about coastal and marine resources and help solve contemporary marine-related problems. Sea Grant is the largest of the 34 Sea Grant programs nationwide and draws on the talents of scientists and engineers at public and private universities, as well as other research institutions throughout the state. It is administered by UCSD and is based at the Scripps Institution of Oceanography in La Jolla, California. The Sea Grant program is funded by the National Sea Grant College Program, part of the National Oceanic and Atmospheric Administration, with matching funds from State and local resources.

As identified in the Delta Reform Act, the mission of the Delta Science Program is "to provide the best possible scientific information for water and environmental decision-making in the Bay-Delta system through funding research, synthesizing and communicating scientific information to policymakers and decisionmakers, promoting independent scientific peer review, and coordinating with Delta agencies to promote science-based adaptive management," (Water Code Section 85280(b)(4)). The Delta Science Program does this in part by initiating, evaluating, and funding research to fill critical gaps in our understanding of the current and changing Bay-Delta system. In addition, this agreement with UCSD, Sea Grant would continue a long-standing partnership between the Delta Science Program and Sea Grant in providing fellowship opportunities for early-career scientists. This program is essential to fostering the growth and diversity of the region's scientific community.

## Delta Science Fellows Program

This program pairs the next generation of Delta scientists with academic and community mentors to conduct critical science investigations targeting high-priority Delta issues. Numerous past Delta Science Fellows have continued to work in science (in many cases the Delta region) building on the work they conduct as Fellows to launch full careers centered on developing scientific information for improved management.

Research funded by the Delta Science Fellows program is critical for addressing the priority science actions in the 2022-2026 Science Action Agenda (SAA), a four-year science agenda for the Sacramento-San Joaquin Delta that aims to fill gaps in knowledge, promote collaborative science, and build science infrastructure.

Delta Science Fellows are selected through a competitive solicitation process, with resulting candidate proposals undergoing a rigorous review and selection process administered by Sea Grant. A key selection criterion will be whether the proposal addresses one of the five overarching science topics identified in the SAA. If the Council approves the current funding request, the next Class of Delta Science Fellows (2024) will continue to focus on research topics that address the actions identified in the SAA.

Research highlights from recent classes of Science Fellows include:

- Expansion of the Pesticide Management Prioritization Model developed under a 2020 Delta Science Fellowship, adding multi-species indices, pesticide transport under diverse irrigation practices, and pesticide degradation in a range of Bay-Delta soils. Results will enable farmers and other residents of agricultural areas to better understand their exposure to pesticides and identify opportunities to improve pesticide practices.
- An in-depth understanding of atmospheric and hydrologic carbon fluxes in restored tidal wetlands to construct a net carbon budget. Results will improve our understanding of wetlands as both sinks and potential sources of carbon dioxide, thus informing tradeoffs of wetland restoration.

- Use of new genomic techniques to identify and link cyanobacteria taxa and cyanotoxins within harmful algal blooms (HABs). The project leverages existing monitoring data from the Interagency Ecological Program to help identify drivers and impacts of HABs and cyanotoxins.

## State Policy Fellows

The State Policy Fellows are recent post-graduates interested in exploring a career path in the public sector at the science-policy interface. State Policy Fellows work with Council staff in the Science and Planning Divisions for 12 months to support the Council's high priority tasks. Though not all-inclusive, previous work performed by Policy Fellows includes:

- providing substantial support to the Delta Independent Science Board;
- assisting in Delta Plan amendments and updates;
- assisting the Delta Lead Scientist on the monthly "Lead Scientist Report" to the Council;
- gathering data and presenting the "By the Numbers" report to the Council;
- supporting the Interagency Adaptive Management Integration Team; and
- participating in the Delta Science Plan and Science Action Agenda Updates.

The current request for a new contract with UCSD will fund ten State Policy Fellows (five each for calendar year 2024 and 2025).

## Fiscal Information

The budget information is summarized below.

<b>Budget Category</b>	<b>11/1/23-10/31/26</b>
Personnel	\$273,613.97
Science Fellowships	\$1,009,088
State Policy Fellowships	\$601,800
Travel	\$31,883
Indirect Costs	\$348,471.89
Other Direct Costs (Workshops, Panelists)	\$38,337
<b>Total</b>	<b>\$2,303,193.86</b>

## List of Attachments

Attachment 1: Resolution 2023-06

## Contact

George Isaac

Senior Environmental Scientist

Phone: (916) 902-6581