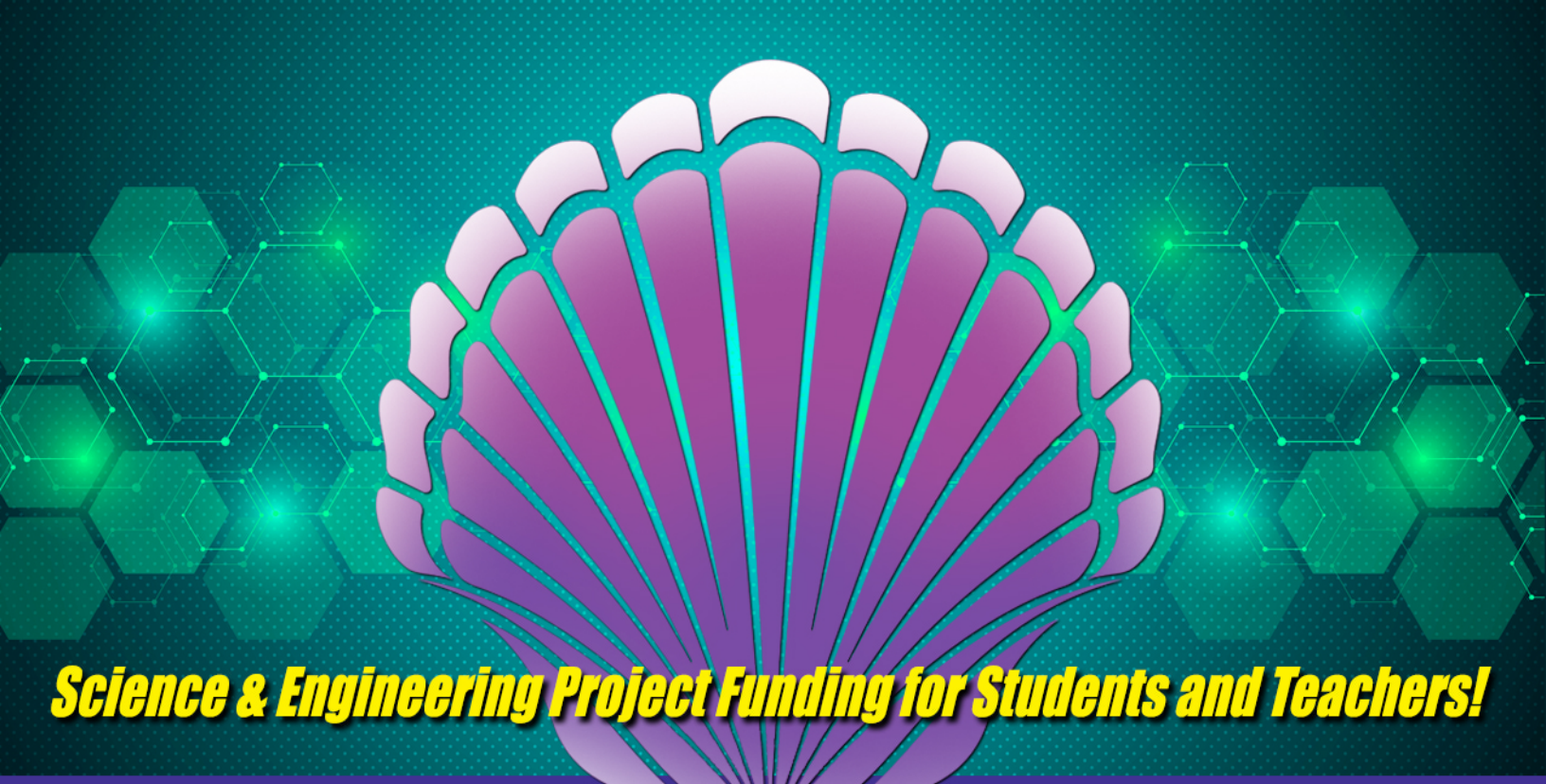

Up to $1,000 to fund your inquiry-based research science and engineering fair project

Every public, private, parochial, charter or home school student or teacher is eligible to apply for these funds.

- **Application Deadline is October 17, 2020**
- **Funding recipient(s) notification is October 24, 2020**

Sponsored By:

PACIFIC SHELLFISH INSTITUTE

Application Criteria:

- **YOUR: NAME • GRADE • EMAIL • CONTACT INFO • NAME** of **TEACHER** or **SUPERVISOR**
- Provide the **Project Name** and **Proposed Research Plan** including **Hypothesis**, **Rationale**, **Methods**, **Safety Plan** and a **Short Budget** for **Funding Justification**.
- There will be a preference towards projects supporting sustainable shellfish aquaculture.
- Project funding is based upon number of applicants, project's merit and at the sole discretion of the funding sponsor(s). Students receiving funding agree to participate in their Regional Science & Engineering Fair and/or the Washington State Science & Engineering Fair.

Disclaimer: The Washington State Science & Engineering Fair www.wssef.org is assisting to gather applicant information for the Pacific Shellfish Institute. All funding decisions are made solely by the program donor(s).

Submit your completed application to: sponsors@wssef.org or mail to: WSSEF, Attn: PacShell, P.O. Box 2412, Silverdale, WA 98383

Need More Information? . . . . . Contact: sponsors@wssef.org

Have Mentoring Questions? . . . . . Contact mentors@wssef.org

PACIFIC SHELLFISH INSTITUTE

SUSTAINABLE SHELLFISH AQUACULTURE

FOCUS AREA & PROJECT EXAMPLES

Stormwater & Water Quality
- Engineering solutions or testing materials (shell, compost, etc.) to remove contaminants

Technology
- Using drones or ROVs to survey intertidal algae, invertebrates, habitat types

Sustainability
- Engineering/testing new materials for holding, protecting, packaging shellfish
- Preventing and eliminating marine debris
- Rearing and developing uses for cultivated algae

Changing Climate & Ocean Conditions
- Testing impacts of changing ocean conditions (pH, oxygen, temp, salinity) on shellfish physiology and survival (i.e. filtration rates, shell strength, reproduction)

Invasive & Nuisance Species
- Testing eradication efficacy, monitoring techniques, secondary use of invasive species
- Reducing fouling on aquaculture gear

Habitat/Species Restoration
- Restoring Olympia oysters, kelp, eelgrass, native shellfish species

Lower Trophic Levels - Zooplankton & Phytoplankton
- Evaluating changes in species composition – spatial or temporal

Human Health, Safety & Disease
- Improving Harmful Algal Bloom detection, warning and response

Shellfish Mortality
- Understanding, predicting and preventing shellfish mortality events

Pacific Shellfish Institute

PSI SCIENTISTS AVAILABLE FOR MENTORING & EQUIPMENT NEEDS AS REQUESTED & APPLICABLE. SHARE YOUR IDEAS WITH US AT PSI@PACSHELL.ORG