



Dear Sean Lai,

On behalf of the National Aeronautics and Space Administration (NASA), we are pleased to inform you that you have been selected for an internship at Langley Research Center for the Fatigue Crack Diagnostics using Embedded Fiber Optics project in Summer 2020. Your start date will be 6/1/2020 and the end date will be 8/7/2020 for a total of 10 weeks. Your total stipend amount will be \$7300.00.

**Internship Details:**

**Project Description:** Fiber optic strain sensors were embedded in a complex metallic part using an additive manufacturing technique. A test was run in which a fatigue crack initiated and grew toward the sensors. The student working on this project will be tasked with processing the strain data and applying uncertainty quantification and modeling techniques to diagnosis fatigue crack length over time. The task will involve computer programming in Python and finite element analysis, and may include a limited amount of laboratory work.

**Additional Internship Details:** This internship opportunity is sponsored by the Oregon Space Grant Consortium. If you have any questions about this offer or the internship, please contact the [Center Acronym] Internships Coordinator, [Center Internships Coordinator Name] at [Center Coordinator Phone] or [Center Coordinator Email]. **Stipend Payments:** Stipend payments are administered by the Oregon Space Grant Consortium. Please contact the Oregon Space Grant Consortium POC, Catherine Lanier, at [catherine.lanier@oregonstate.edu](mailto:catherine.lanier@oregonstate.edu) or 541-737-2414 with questions regarding the stipend. You will also need to provide a copy of this offer letter to the Space Grant Consortium POC as soon as possible.

**NOTE:** This offer is contingent upon the continuation of summer 2020 internships at NASA. The Agency is continuing to offer summer placements at its centers and facilities as it assesses the impact of the COVID-19 pandemic and how that impact will affect summer 2020 placements. You will be notified should this offer be withdrawn by your center internship office. NASA expects to make a determination by April 15.

**After Acceptance:** After accepting this internship offer, please monitor your email carefully. You will receive important instructions over the next few weeks from various entities closer to the start date. Emails may contain information regarding:

- An email from "Identity Manager" to initiate the NASA badging process
- Stipend Information from the Stipend Administrator
- Center Welcome Packet
- Housing Information
- Orientation and First Day Reporting Instructions
- Mentor Contact Information

**Travel and Housing Accommodations:** Interns are responsible for arranging and financing their own housing accommodations and travel to and from their assigned NASA center, unless stated otherwise above. If you have housing accommodation questions, please contact your NASA center internship coordinator.

Throughout your internship, your point of contact will be the internship coordinator: .

We look forward to your response.

National Aeronautics and Space Administration (NASA)

