



NDSU INBRE Monthly Update

SUMMER UNDERGRADUATE RESEARCH OPPORTUNITY | COLLABORATIONS

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SURP 2018 Nominations, Presentations, and Applications

Sponsored by NDSU INBRE

NDSU INBRE is proud to announce that the SURP 2018 application is OPEN!!! SURP 2018 is going to be held between June 4th and June 15th, 2018. Since its first launch in 2015, SURP is making changes each year to improve the experience of the students. As a result, this year NDSU INBRE SURP in collaboration with the NDSU Office of Admissions will offer SURP as a course credit. This could have an added benefit to the overall SURP experience i.e. having access to the NDSU blackboard, MATbus and the Wellman Wellness Center.

In the previous years the SURP program has been held earlier in the months of May immediately after the end of the spring classes. This conflicted with other programs and affected students' participation. SURP staff anticipate more participation in with this year's program dates. New this year, are SURP nominations where students can be nominated by faculty, staff, counselors/advisors, and peers to apply to the program. The nomination will assist program staff with connecting to potential applicants prior to the program as well as provide additional support in applying to SURP. Below is a link for the nomination form. Please nominate a student you know would benefit from the program.

- SURP 2018 Nominations, Presentations, and Applications
- NIFA Project with NHSC
- Air Quality Update
- Instagram Account Launched

SURP Nomination Form

https://ndstate.co1.qualtrics.com/jfe/form/SV_5mZ888xB4MVMhQF

Staff will be holding a Q and A webinar on February 14th 10am CT about the upcoming SURP 2018 and a link to the webinar will be provided to the tribal colleges and to our Facebook page and Twitter account. Like our page and follow our Twitter to stay updated on other student opportunities. Staff will also be presenting at tribal colleges on this program to provide students with more opportunities to interact with staff and learn about the program. Questions can be emailed to pearl.walker@ndsu.edu or haimanot.berhane@ndsu.edu or by calling 701-231-6111.

Application is due on March 31st, 2018!

Below is the link to the SURP 2018 application.

https://ndstate.co1.qualtrics.com/jfe/form/SV_eLgfn0ZlauCve17

NIFA Project with NHSC

A Collaboration

The Nueta-Hidatsa-Sahnish College (NHSC) has been awarded a grant through NIFA for a 2-year project to implement interdisciplinary experiential learning at NHSC. The NDSU Department of Public Health has partnered with NHSC for assistance in the project. Donald Warne, Department Chair, INBRE Project Manager, Pearl Walker-Swaney, and AIPHRC Education Project Manager, Vanessa

Tibbitts, will assist NHSC with mentoring and developing research seminars. Pearl and Vanessa will also be coordinating department tours for NHSC students. NHSC is set to tour the Department of Public Health (DPH) and the Equine Science Department on February 9, 2018. Students will be introduced to DPH faculty, staff, listen to current overviews of research projects and

programs, learn about the specializations of the MPH program, and take a tour of the Department of Public Health. They will also be introduced to the faculty and projects in the Equine Science Department.

NHSC Continues Air Quality Pilot Project

New Data Collected



NHSC Student Lizette Azure discusses the labeling of the air samples to INBRE Project Manager Pearl Walker-Swaney on January 26, 2018.

As students transition into the new semester, so too has the NHSC Air Quality research team. Two NHSC students and NDSU students will continue collecting and analyzing air quality data. Lizette and Shayla, as well as a student involved with the inception of this project, James, will take the

the welding lab. Although, there is continued interest in monitoring outdoor air quality, shifting the project to indoor sampling during the winter months will continue to provide students with hands-on research experience in sample prep and data

lead on air sampling at NHSC's Welding lab. Monitoring air quality due to oil development has shifted to indoor air quality due to the winter. In cold temperatures, air samples can yield skewed and unreliable data. The researchers at NHSC, overseen by Dr. Hartman, have received notable concerns from the college's Welding Instructor and students about the quality of the air in

collection. NDSU students in Geoscience, overseen by Dr. Saini-Eidukat, will assist with data analysis of the samples collected by NHSC. Sampling the air of the Welding Lab will commence this semester using PTFE (polytetrafluorethylene) filters. The rationale for using PTFE filters, rather than the Teflon filters, may provide students with more accurate data. The Teflon filters are silicon based. Silicon appeared in results from previous air quality samples making it problematic to identify the compounds in the samples. Hence, the research team is piloting PTFE filters for sampling to investigate their efficiency in collecting samples that will yield clearer results. Lizette and James came to NDSU on January 26th to bring their samples to the NDSU researchers and meet the NDSU team. Both students were greeted by INBRE Project Manager, Pearl Walker-Swaney, and were able to tour the lab that contains the microbalance scale used for analysis with Dr. Saini-Eidukat and his undergraduate research assistants. Weighing the samples and pre-conditioning new filters for sampling will be complete in early February.

INBRE Instagram Launch

Another Way to Stay Connected

INBRE has added Instagram to its social media outlets. As SURP planning and the air quality project commence, staff will be sharing progress and updates. Follow our Instagram @ndsuinbre!

If you would like to nominate a student to be featured in our newsletter, have suggestions, or questions, contact us!

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