

Sanford Postbaccalaureate Research Training Award in Precision Medicine and Precision Public Health

Program Description: The Sanford Postbaccalaureate Research Award in Precision Medicine and Precision Public Health provides recent college graduates an unparalleled opportunity to gain research experience in the development of real-world solutions for analyzing and managing the “omics” data that is now driving next-generation biological research and medicine. The two-year fellowship offers hands-on experience in applied research, project management, and preparation of material for publication. Fellows will be expected to work independently and collaboratively, champion ideas, and see projects through to fruition. Under the direct supervision of Dr. Cornelius F. Boerkoel, Director of the Sanford Research Center on Genomic and Molecular Medicine, and in conjunction with outstanding computational engineers, bioinformaticians, clinicians and researchers, fellows will gain direct experience developing and building novel solutions and communicating their results through oral and poster presentations, peer-reviewed publications, and attendance at relevant symposia and national meetings.

Eligibility: The Sanford Postbaccalaureate Research Award in Precision Medicine and Precision Public Health is open to outstanding college graduates who received their bachelor’s degrees less than two years prior to the date they begin the program. Candidates must be U.S. citizens or permanent residents.

Award: Fellows will receive a stipend as well as health benefits.

Application Procedure: Prospective candidates will be required to submit:

- A curriculum vitae or resume
- List of coursework and grades received
- One page statement of intent describing the applicant’s interests, career goals, rationale for applying, and areas of interest or focus for fellowship project
- Names and contact information for three references

These should be submitted directly to Dr. Boerkoel at cornelius.boerkoel@sanfordhealth.org.

Dr. Boerkoel will interview the applicants by telephone. The awards will be announced as interviews are completed. Fellows will be informed of their selection by Dr. Boerkoel.



Fellows will be expected to conduct their work at Sanford Research in Sioux Falls, South Dakota and will be required to submit the following documentation prior to beginning their fellowship.

- Official college transcript(s)
- Proof of U.S. citizenship or permanent resident status. U.S. citizens may submit a copy of their birth certificate or passport. Permanent residents will need to provide a copy of their alien registration card.

About the Sanford Research Center on Genomic and Molecular Medicine

Sanford Health is an integrated health system headquartered in the Dakotas. It is one of the largest health systems in the nation with 43 hospitals and nearly 250 clinics in nine states and four countries. Sanford Health's 27,000 employees, including 1,400 physicians, make it the largest employer in the Dakotas. Nearly \$1 billion in gifts from philanthropist Denny Sanford have allowed for several initiatives, including global children's clinics, genomic medicine and specialized centers researching cures for type 1 diabetes, breast cancer and other diseases. For more information, visit sanfordhealth.org.

Sanford Research (originally called South Dakota Health Research Foundation) was formed by the University of South Dakota and Sanford Health in 1998. In 2006, Sanford Research came under the controlling interest of Sanford Health. Sanford Research is also structurally positioned such to facilitate translational and clinical research across South Dakota and the Sanford Health network. Sanford Research is home to basic, translational, and clinical research across six centers: Sanford Children's Health Research Center (SCHRC), Edith Sanford Breast Cancer, Cancer Biology Research Center (CBRC), Center for Health Outcomes and Prevention Research (CHOPR) – inclusive of Health Disparities and Methodology & Data Analysis, Sanford Sports Science Institute, the Clinical Research Center and the Center on Genomic and Molecular Medicine.

The Sanford Research Center on Genomic and Molecular Medicine is a nascent center bridging precision public health through individualized precision medicine. Developing concepts and tools for improving well being, the Center works closely with all components of the clinical and research efforts pursued at Sanford Health and Sanford Research and with an array of global investigators. Related to its work in precision public health, it has aligned closely with the Center for Health Outcomes and Prevention Research. Related to its work in individualized precision medicine, it has aligned closely with various clinicians and with the Sanford Children's Health Research Center.

