

System Specialist II / Senior System Specialist - CryoEM

Job ID: 201906-117146

Job Function

Automation Engineering

Location

South San Francisco
California
United States of America

Schedule

Full time

Job type

Regular

Company/Division

Pharmaceuticals

Job Level

Individual contributor

The Position

The department of Structural Biology at Genentech is expanding its cryo-EM effort to support research and drug discovery and has an exciting opportunity for a very motivated individual to join our cryo-EM team as a System Specialist II or Senior System Specialist.

The successful candidate will be a technical expert in at least one of the following areas:

- **Sample preparation and optimization for cryo-EM:** a strong background and proven track record in protein biochemistry, cryo-EM grid preparation and sample optimization for cryo-EM structure determination, as well as excellent communication, interpersonal and organizational skills are essential. Hands-on experience with different protein classes (*i.e.* soluble, membrane and/or secreted) is highly desirable. Experience with one of the automatic vitrification systems (Chameleon , Vitrojet, Cryo-writer, etc.) would be considered a plus.
- **Data collection and cryo-EM operations:** the candidate should have in-depth technical knowledge of electron microscopes, and proven proficiency in cryo-EM grid preparation and manual and automated data collection on 200keV and 300keV systems using SerialEM or EPU. Experience with on-the-fly single-particle data processing, the collection and/or processing of microED data will be considered a plus. The successful candidate will have excellent communication, interpersonal and organizational skills and a proven track record of support and coordination of multiple projects and users in a cryo-EM facility set-up.

The successful candidate will be part of a diverse and stimulating research environment focused on enabling research and drug discovery to help patients in need. While embedded within the Genentech pipeline, the selected candidate would also have the opportunity to initiate independent or collaborative research efforts.

The cryo-EM facility at Genentech houses a Titan Krios equipped with post-GIF K2, a Talos 200C equipped with CetaD, a Glacios equipped with K2 (to be delivered August 2019) and

another Titan Krios equipped with energy filter and K3 (to be delivered January 2020), as well as the usual ancillary equipment for sample preparation and plunge-freezing.

Who You Are:

Required qualifications: Ph.D. or equivalent in biochemistry, biophysics, protein engineering, and/or structural biology, with hands-on experience in cryo-EM sample preparation and optimization and/or data collection and equipment maintenance is required. Productive postdoctoral training and/or industry experience highly desirable.

Additional desired qualifications:

- Hands-on experience optimizing the production of challenging protein targets for structural studies.
- Proficiency in cryo-EM structure determination or modeling using one or more software packages.
- Experience with MicroED data collection and data processing.
- Experience with protein engineering and/or design approaches.
- Analysis, design, and/or computational approaches to investigate ligand-protein complexes.

#LI-GREDES1

Who We Are

A member of the Roche Group, Genentech has been at the forefront of the biotechnology industry for more than 40 years, using human genetic information to develop novel medicines for serious and life-threatening diseases. Genentech has multiple therapies on the market for cancer & other serious illnesses. Please take this opportunity to learn about Genentech where we believe that our employees are our most important asset & are dedicated to remaining a great place to work.

Genentech is an equal opportunity employer & prohibits unlawful discrimination based on race, color, religion, gender, sexual orientation, gender identity/expression, national origin/ancestry, age, disability, marital & veteran status. For more information about equal employment opportunity, visit our [Genentech Careers page](#).