

Flow Cytometry Analyst

Indiana University Bloomington

Job ID: 318049

Department

BIOLOGY (BL-BI-IUBLA)

Department Information

The [department of Biology](#) is a large, unified department with strong undergraduate degrees, nationally-ranked graduate programs, and world-class research spanning the breadth of biological questions and experimental systems from ecosystems to microbiology and developmental biology, from evolution to cell biology, from molecular biology to systems biology, bioinformatics, and genomics. It is always an exciting time for Biology enormous advances in global genome analysis coupled with unprecedented developments in interdisciplinary research have made the 21st century the Century of Biology. For more information about the department, you can find it [here](#):

Job Summary

Indiana University Bloomington (IUB) seeks a motivated and innovative [Flow Cytometry Analyst](#). In this position, you will be responsible for managing the IUB Flow Cytometry Core Facility (FCCF), which supports life science research on the entire IUB campus and beyond. Key instruments include the Cytek Aurora Spectral Cell Sorter, Sony SH800 Cell Sorter, CytoFLEX LX Cell Analyzer, MACSQuant VYB Cell Analyzer, and COPAS Select large particle sorter. This role is essential to researchers across several departments at IUB, including Medical Sciences, Biology, Molecular and Cellular Biochemistry, and Chemistry.

Department Specific Responsibilities

- Responsible for oversight and maintenance of flow cytometry instrumentation, assay development, training, and facility operations.
- Establishes, modify, and implement Standard Operating Procedures (SOPs) for routine maintenance and performance evaluation of flow cytometers and associated instrumentation.
- Independently performs instrument setup, sample acquisition, calibration, alignment, and troubleshooting.
- Oversees instrument repair and service coordination.
- Maintains detailed documentation of instrument performance, service logs, and corrective actions to ensure optimal operation and data reliability.
- Trains students and investigators on cytometry concepts, including instrument startup/shutdown, routine maintenance, sample acquisition, and basic data analysis
- Educates users on sample preparation requirements tailored to their specific research goals and experimental designs.
- Supports users in developing technically sound and biologically relevant cytometry-based approaches.
- Collaborates with the Director and investigators to develop, evaluate, and optimize multicolor flow cytometry assays, including high-parameter panels.
- Works independently or collaboratively to design and validate novel analytical methods with attention to accuracy, reproducibility, and biological relevance.

- Manages laboratory resources, including supply ordering and inventory control.
- Oversees compliance with institutional safety policies related to chemical, biological, and instrument operations.
- Supports budgeting, cost-recovery tracking, fee development, and reporting metrics.
- Stays abreast of emerging cytometry platforms, analytical software, reagents, and immunological techniques.
- Evaluates and implements new tools for flow data analysis and reduction; train users on software solutions as needed.
- Engages in continuing education and present innovative methodologies to enhance the FCCF's impact on cutting-edge research.

General Responsibilities

- Analyzes flow cytometry data and/or sorts cells using specified Flow Cytometry Core Facility (FCCF) technology.
- Mentors new users on the use of FCCF instruments.
- Advises on experimental designs and project troubleshooting.
- Performs and interprets quality control procedures, instrument function checks, and completes maintenance records.
- Performs housekeeping, materials stocking, and disposal of liquid and solid waste and prepares reagents for the operation of the cell sorters.
- Processes and determines acceptability of specimens for testing.
- Performs instrument troubleshooting.

Qualifications

Combinations of related education and experience may be considered. Education beyond the minimum required may be substituted for work experience. Work experience beyond the minimum required may be substituted for education.

EDUCATION

Required

- Bachelor's degree (preferably in biological sciences, chemistry, or comparable field)

WORK EXPERIENCE

Required

- 3 years Flow cytometry analysis or cellular research history.

SKILLS

Required

- Proficient communication skills
- Maintains a high degree of professionalism
- Demonstrates time management and priority setting skills
- Demonstrates a high commitment to quality
- Possesses flexibility to work in a fast paced, dynamic environment
- Seeks to acquire knowledge in area of specialty
- Highly thorough and dependable

- Demonstrates a high level of accuracy, even under pressure
- Demonstrated analytical skills
- Quickly troubleshoots and resolves problems

Preferred

- Hands-on experience with high-parameter cytometry and a commitment to supporting foundational and translational life sciences research
- Demonstrates experience with data analysis platforms (e.g., FlowJo, FCS Express) and Microsoft Office products (e.g., Word, Excel, PowerPoint), and other common tools
- Training in bacteriological, viral, chemical, and physical safety
- Ability to work safely in a BSL2 environment
- Demonstrates success in training others desired

Working Conditions / Demands

The role regularly requires the ability to effectively communicate. The role frequently requires the ability to move about the work environment and to position oneself to operate laboratory equipment effectively. The role requires the ability to move objects weighing up to 25 pounds and will occasionally work near moving mechanical parts. The person in this role must be able to perform the essential functions with or without an accommodation.

Additional Information

Bloomington is known as one of the best college towns in the country. USA Today named Bloomington one of the top 10 places for rich campus culture and Rand-McNally selected Bloomington as one of the 8 most desirable places to live in the United States, based on economy, personal safety, climate, housing, services, and leisure activities, including access to nearby state parks and a federal Wilderness Area that offer gorgeous hiking, running, and paddling opportunities. And it is affordable: Periodic surveys conducted by the American Chamber of Commerce Researchers Association have shown that the cost of living in Bloomington is consistently at or below the national average.

Work Location

Bloomington, Indiana

Department of Biology

Advertised Salary

\$65,000-\$70,000 negotiable

Benefits Overview

For full-time staff employees, Indiana University offers a wide array of benefits including:

- Comprehensive medical and dental insurance
- Health savings account with generous IU contributions
- Healthcare and dependent care flexible spending accounts
- Basic group life insurance paid by IU

- Voluntary supplemental life, long-term disability, critical illness, and supplemental accidental death & dismemberment insurance
- Base retirement plan with generous IU contributions, subject to vesting
- Voluntary supplemental retirement plan options
- Tuition subsidy for employees and family members taking IU courses
- 10 paid holidays plus a paid winter break each year
- Generous paid time off plans
- Paid leave for new parents and IU-sponsored volunteer events
- Employee assistance program (EAP)

Learn more about our benefits by reviewing the [IU Benefit Programs Brochure](#).

Job Classification

Career Level: Career

FLSA: Exempt

Job Function: Research

Job Family: Flow Cytometry

[Click here to learn more about Indiana University's Job Framework.](#)

Posting Disclaimer

This posting is scheduled to close at 11:59 pm EST on the advertised Close Date. This posting may be closed at any time at the discretion of the University, but will remain open for a minimum of 5 business days. To guarantee full consideration, please submit your application within 5 business days of the Posted Date.

If you wish to include a cover letter, you may include it with your resume when uploading attachments.

Equal Employment Opportunity

Indiana University is an equal opportunity employer and provider of ADA services and prohibits discrimination in hiring. [See Indiana University Notice of Non-Discrimination here which includes contact information.](#)

Campus Safety and Security

The Annual Security and Fire Safety Report, containing policy statements, crime and fire statistics for all Indiana University campuses, is [available online](#). You may also request a physical copy by emailing IU Public Safety at iups@iu.edu or by visiting IUPD.

Contact Us

[Request Support](#)

Telephone: 812-856-1234