

Partner Search Form
Horizon Europe
Health



Date

Deadline

CONTACT

Organisation	Biomedical and Environmental Sensor Training (BEST) program	Department	Biochemistry & Molecular Biology, Chemistry, Physics, Applied Science and Engineering.
Contact person	Mona Wu (Program Coordinator) Peter Unrau (Director)	Email	Mona_wu@sfu.ca Punrau@sfu.ca
City	Burnaby	Website	https://www.sfu.ca/science/graduate-students/prospective-students/create.html
Country	Canada		

Organisation type

Research organisation type	☐ Research Organisation	Is your company a Small and Medium Sized Enterprise (SME*)?	☒ YES ☐ NO
	☒ University		
	☐ Company		
	☐ Other		
		Number of employees: 50	

Your enterprise is an SME if:

- it is engaged in **economic activity**
- it has **less than 250 employees**
- it has either an **annual turnover not exceeding €50M**, or an **balance sheet total not exceeding €43M**
- it is **autonomous**

For the definition of SMEs, look at: http://ec.europa.eu/growth/smes/business-friendly-environment/sme-definition_en

Short introduction of key areas of institute's research:

Molecular interactions, microfluidics, sensor fabrication, nano-scale surface and particle metrology, sensor design and instrumentation

Former participation in an FP European project?

☐ YES ☒ NO

Project title / Acronym:

Activities performed:

Expertise / Commitment offered

Description of your expertise:

The Biomedical & Environmental Sensor Training (BEST) Program brings together an interdisciplinary team of biochemists, chemists, physicists and engineers from Simon Fraser University

and the University of Waterloo, supported by established partnerships with sensor companies and government agencies. The team offers complementary capabilities spanning molecular recognition, biosensor development, analytical chemistry, materials science, photonics, electronics, microfluidics, data analysis and device integration.

BEST is positioned to advance sensor technologies from fundamental discovery through prototype development, validation, intellectual property generation and commercialization. Its collaborative structure enables the integration of molecular components, functional materials, detection platforms and engineering systems into deployable biomedical and environmental sensing technologies.

The program provides Horizon Europe consortia with access to a broad Canadian sensor-development network, strong translational expertise, industrial and government connections, and experience in identifying, protecting and developing intellectual property with commercial potential.

Keywords specifying your expertise:

Point-of-care, electronically-enabled devices, monitoring, sensing

Commitment offered:

☒ Research ☐ Demonstration ☒ Training
☒ Technology ☒ Dissemination ☐ Other:

Interested in participation in project types:

☒ Research & Innovation Action	☒ Innovation Action	☒ EIC Pathfinder
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Work Programme research areas: indicate your interest

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Call topic(s):

HORIZON-HLTH-2027-02-IND-02-two-stage: Portable and versatile Point-of-care Diagnostics.

HORIZON-HLTH-2026-01-TOOL-03: Integrating New Approach Methodologies (NAMs) to advance biomedical research and regulatory testing.

HORIZON-CL6-2026-01-BIODIV-02: Developing methods to assess the presence, functions and sensitivity of groundwater ecosystems.

HORIZON-CL4-2026-05-MAT-PROD-25: New or enhanced Innovative Advanced Materials (IAM) enabled sensing functionality (RIA)

Do you have other partners for this topic (which partners/country)?

We have research collaborators in the UK, EU and Japan.

Profile of partner sought

Role

☒ technology development	☒ research	☒ training
☐ dissemination	☒ demonstration	☐ other _____

Country /region

☐

Expertise required

- **Point-of-care diagnostics:** clinical samples and validation sites; microfluidics and sample preparation; device engineering; IVDR and regulatory expertise; scalable manufacturing and commercialization.
- **IAM-enabled sensing:** advanced functional materials; nanofabrication and surface engineering; device integration and packaging; durability testing; scalable manufacturing and industrial deployment.
- **Groundwater ecosystems:** groundwater ecology and hydrogeology; access to field sites and reference samples; eDNA/metagenomics; ecosystem-function assessment; environmental validation and regulatory connections.

I agree with the publication of my contact data:

☒ YES

☐ NO