



BERKELEY SENSOR & ACTUATOR CENTE

University of California, Berkeley; University of California, Davis

Main Office (510) 643-6690 | USA Facsimile (510) 666-2050 | bsac.berkeley.edu

Email mdcable@berkeley.edu



The BSAC Visiting Industrial Fellow Program

Program Summary

In order to further the technology transfer goals of BSAC, a Visiting Industrial Fellow (VIF) program has been established. Under this program, Industrial Members of BSAC may, with sponsorship of one of the faculty Directors, co-locate a professional technical employee on campus, in facilities consistent with the research goals of the VIF. During their annually renewable appointment, the VIF will conduct research and participate in BSAC, College of Engineering, and campus activities. The VIF, with support of the Sponsoring Faculty Director (SFD), may participate in a new research project or may join appropriate existing research teams or projects of the SFD. The VIF may alternatively participate in a separately *sponsored research project of the Industrial Member*. Such separately sponsored Industrial Member research projects may pre-exist or may be defined and funded after a period of, and as a result of, VIF on-campus assignment. The VIF will execute a University *Patent Acknowledgment* that defines treatment of inventions.

The Industrial Member will provide funding (*typically \$50,000 to \$125,000 annually, depending on department and faculty requirements*)* to the Department of the Sponsoring Faculty Director, during which time the Industrial Member must remain a BSAC member and during which time VIF must remain a paid employee of the Industrial Member. The VIF appointment fee will be distributed between the Sponsoring Faculty Director and the Engineering Department in whose facilities the VIF office space and administrative support is provided.

Benefits

- Access on a regular basis to Sponsoring Faculty Director who shall act as campus sponsor and VIF research advisor.
- Desk/shared office space for a professional resident Visiting Industrial Fellow.
- Administrative support, telephone, and computer network access including remote dial-in access which shall continue for one year following the VIF appointment, provided sponsoring Industrial Member remains in BSAC.
- Assistance with necessary Exchange Visitor (J-1 visa) applications (J-2 if family accompanies the VIF).
- Participation as a regular member of a research team on an existing research project or (optionally) on a directed research project sponsored under separate contract by the Industrial Member company.
- Access, at additional costs but at student recharge rates, and without the normal additional Microlab Affiliate fees, to the Berkeley Microlab facilities for research and development.
- Participation by the VIF in Departmental seminars and colloquia.
- Participation, by prior arrangement, and *with the approval of affected faculty*, in internal BSAC research meetings of any regular BSAC research team including those of other BSAC or affiliated faculty Directors.
- Auditing of any departmental course of sponsoring department (subject to space and Instructor's permission).
- Annual research review meeting with the Sponsoring Faculty Director on campus or at the facilities of the Industrial Member (with reimbursement of travel expenses).

Procedure

- Candidate VIF secures permissions from their Industrial Member sponsor (employer) to discuss prospective research goals with BSAC faculty Directors.
- BSAC faculty discusses research goals with prospective VIF and agrees to serve as Sponsoring Faculty Director.
- Industrial Member company provides to BSAC a *Letter* requesting the VIF appointment, and acknowledging the VIF fees, BSAC membership requirement, payment of VIF salary and living expenses during the appointment, and (optional) reimbursement of Microlab recharge fees (if any). Include C-V of the VIF with this letter.
- IF signs the University "Visiting Scholar and Postdoc Affairs" (VSPA) *Application for Visiting Scholar Appointment*.
- For foreign applicants, VIF provides data such as passport image, accompanying family data and proof of employment.
- University initiates a *Request for Form DS-2019 for J-1 Exchange Visitor* on behalf of VIF.
- DS-2019 for J-1 Exchange Visitor is issued to VIF, who secures J-1 Visa from their local US Embassy.
- VIF reports to and is welcomed by BSAC/Sponsoring Faculty Director; completes arrival process, (visits VSPA office, gets Cal ID card, Library account, computer account, and office assignment).
- University/Department/BSAC issues VIF fee invoice to Industrial Member organization and (optional) reimbursement request for annual anticipated Microlab recharge fees (as may be required once VIF research project is agreed).

Contact: Michael D. Cable, BSAC Executive Director
Phone USA +1-510-643-5663 | Email mdcable@berkeley.edu

BSAC Visiting Industrial Fellow Program (Candidate Sponsoring Faculty Directors)

All are BSAC Co-Directors from Electrical, Mechanical, and BioEngineering at UC Berkeley and UC Davis

Bernhard E. Boser*

Specialty: Analog and mixed signal circuits; Sensor and actuator interfaces; MEMS accelerometers

Appointments: Professor, Electrical Engineering & Computer Sciences

Office: 490A Cory Hall **Phone:** (510) 643-8350 **Email:** boser@eecs.berkeley.edu

David A. Horsley

Specialty: MEMS devices and processes; photonics; sensors

Appointments: Assistant Professor, Mechanical and Aeronautical Engineering (UC Davis)

Office: 2016 Bainer Hall, Davis, CA **Phone:** (530) 752-1778 **Email:** dahorsley@ucdavis.edu

Ali Javey*

Specialty: Energy generation and harvesting; Nanoelectronics; Nanomaterials

Appointments: Associate Professor, Electrical Engineering & Computer Sciences

Office: 621B Sutardja Dai Hall **Phone:** (510) 642-7263 **Email:** ajavey@eecs.berkeley.edu

Luke P. Lee

Specialty: BioMEMS; BioPhotonics; Cellular interrogation; Microfluidics; Plasmonics

Appointments: Professor, BioEngineering; Co-Director, UC Berkeley Bio-Nano Technology Laboratory

Office: 408C Stanley Hall **Phone:** (510) 642-5855 **Email:** lplee@berkeley.edu

Dorian Liepmann

Specialty: Biofluid dynamics; BioMEMS; Microfluidics

Appointments: Professor, Bioengineering and Mechanical Engineering

Office: 280 Hearst Memorial Mining Bldg **Phone:** (510) 355-8353 **Email:** liepmann@me.berkeley.edu

Liwei W. Lin

Specialty: MEMS; Nanotechnology; NEMS

Appointments: Chancellor's Professor; Vice Chair, Graduate Studies; Professor, Mechanical Engineering

Office: 621E Sutardja Dai Hall **Phone:** (510) 643-5495 **Email:** lwlin@me.berkeley.edu

Roya Maboudian

Specialty: Surface/Interfacial Science and Micro-/Nanosystems Technology

Appointments: Professor, Chemical and Biomolecular Engineering

Office: 106 Gilman **Phone:** (510) 643-7957 **Email:** maboudia@berkeley.edu

Michel M. Maharbiz*

Specialty: BioMEMS; MEMS processes and devices

Appointments: Associate Professor, Electrical Engineering & Computer Sciences

Office: 646 Sutardja Dai **Phone:** (510) 642-4288 **Email:** maharbiz@eecs.berkeley.edu

Clark T.C. Nguyen*

Specialty: Circuits for MEMS; Communicating MEMS, Integrated circuits; MEMS; Physical electronics

Appointments: Professor, Electrical Engineering & Computer Sciences

Office: 574 Cory Hall **Phone:** (510) 642-6251 **Email:** ctnguyen@eecs.berkeley.edu

Richard S. Muller*

Specialty: MEMS Devices and Processes; Electronic Sensors and Actuators; Device Physics; Microphotonics

Appointments: Professor Emeritus; Professor, Graduate School; Professor, Electrical Engineering & Computer Sciences; Co-Founder, BSAC

Office: 568 Cory Hall **Phone:** (510) 642-0614 **Email:** muller@eecs.berkeley.edu

Kristofer S.J. Pister*

Specialty: Wireless MEMS & Wireless Sensor Networks; SmartDust; MicroRobotics; MEMS Devices, Processes, and Systems; Electronics for MEMS

Appointments: Professor, Electrical Engineering & Computer Sciences

Office: 512 Cory Hall **Phone:** (510) 643-9268 **Email:** pister@eecs.berkeley.edu

Richard M. White*

Specialty: MEMS Devices and Electronics; Ultrasonics; Piezo Materials and Structures

Appointment: Professor, Graduate School; Professor, Electrical Engineering & Computer Sciences; Co-Founder, BSAC

Office: 571 Cory Hall **Phone:** (510) 642-0540 **Email:** rwhite@eecs.berkeley.edu

Ming C. Wu*

Specialty: Optical MEMS; Photonics; BioMEMS; MEMS Devices and Processes; Electronics for MEMS

Appointment: Professor, Electrical Engineering & Computer Sciences

Office: 621D Sutardja Dai Hall **Phone:** (510) 643-0808 **Email:** wu@eecs.berkeley.edu