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ARL Licensing Spotlight: PiezoMEMS Technologies- The U.S. Army Research Laboratory (ARL) has developed several PiezoMEMS technologies using Lead Zirconium Titanate (PZT) which are available for license by start-ups, small businesses, and other firms. These technologies can generate an electrical charge under an applied load and conversely, change size under an applied electric field. Applications include devices where small electronics are needed such as small sensors, wearable technologies, switches, and mechanical actuators. To view a presentation on PiezoMEMS given by the inventor at ETC's recent Technology Commercialization Showcase, visit [ETC-ARL Showcase](#). For further information, please contact John Millemaci at 301-645-6637, ext. 709 or john.a.millemaci.ctr@mail.mil.

Army Facilities Available for Use: Cleanrooms-

ARL offers a state-of-the-art Specialty Electronic Materials and Sensors Cleanroom (SEMASC) to stimulate collaboration and foster Micro-Electromechanical Systems (MEMS) and nanotechnology development with industry and academia. The SEMASC supports a variety of substrate materials in class 100 and class 10 cleanrooms, from piece part fabrication through mid-volume production runs. Partners from industry and academia can access the SEMASC through Cooperative Research And Development Agreements (CRADAS), Interagency Agreements, and/or Test Service Agreements with ARL. The SEMASC provides direct hands-on process access and/or process support services, all the while protecting users' intellectual property at classification levels up to SECRET. For further information, please contact John Millemaci at 301-645-6637, ext. 709 or john.a.millemaci.ctr@mail.mil.



Economic Development/Partner Updates- ETC and our TechFire® incubator are located in the new White Oak Science Gateway, on the campus for the Amalgamated Transit Union (ATU). There are several major development initiatives underway in the area to support increased economic development and growth in the area. Just outside our entrance, the Hillandale Gateway development will offer attractive mixed-use space for

both business and residents. Other planned developments will support the FDA White Oak campus and provide additional office space for business in this part of Montgomery County. For additional information on White Oak area development plans, visit the [White Oak](#) website.



Save the Date-

October 18-19, 2017

The Army Research 2017 Open Campus Open House will be held at the Aberdeen Proving Grounds campus. Registration for the two day event will open soon.

November 14-15, 2017

The Federal Laboratory Consortium, MidAtlantic Region is hosting their Annual Meeting and Industry Day at the Universities at Shady Grove in Rockville, MD. For more information about registration, location, panel discussions, or to be an exhibitor or sponsor the event, visit <https://midatlanticmeeting.federallabs.org/>



Learn more about our
co-working space in White Oak



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the Army Research Laboratory



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