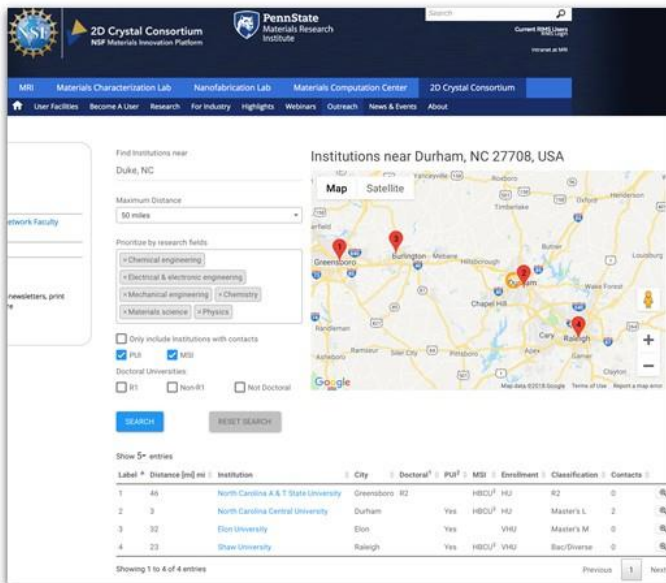




MIP: 2D Crystal Consortium DMR-1539916

2018

**Scientific Travel Extension Program For Outreach
Representatives Working to Advance Research
Diversity**



STEP FORWARD



- Geospatial tool built on Google Maps API to identify MSI, PUI and non-R1 institutions along existing travel itineraries.
- Facilitates user outreach to a diverse range of institutions through travel extension.
- Higher Education R&D data highlights institutions active in research fields of interest



What Has Been Achieved: A geospatial tool that enables users to identify minority-serving, primarily undergraduate, and non-R1 institutions in specific geographical areas, selecting for research activity in areas of interest, to enhance visibility and accessibility.

Importance of Achievement: This tool is designed to broaden participation and strengthen trans-disciplinary community connections through travel extension and is also designed in a manner that can potentially serve additional use cases.

Unique Features of the MIP That Enabled Project: Platform mission and scale enabled the implementation and hosting of an IT-intensive community tool.

Data Sources (Updated upon release of new datasets):

- 1) NSF Support of Research at Primarily Undergraduate Institutions, Slocum & Scholl, 2013
- 2) The Carnegie Classification of Institutions of Higher Education (version from 04/19/2018) – Basic Classification (R1, R2, R3, Tribal College), all other fields of institutions
- 3) National Center for Educational Statistics: College Navigator (version from 04/19/2018) – HBCUs, address data
- 4) U.S. Department of Education, Office of Postsecondary Education, 2016 Eligible Hispanic-Serving Institutions
- 5) U.S. Department of Education, Accredited Postsecondary Minority Institutions, from IPEDS Spring 2007 survey
- 6) Geocodio (www.geocodio.io), for mapping postal addresses of all institutions to geocoordinates
- 7) Higher education R&D (HERD) expenditures and headcount, by state, institutional control, institution, and R&D field: FY 2015