



GeoPathway Initiative

Developing the Next Generation of Professionals

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GeoPathways Initiative - Purpose



- **Purpose/Objective:** Developing the Next Generation of Geospatial Professionals
- **Alignment**
 - **NSDI Strategic Framework Strategy III - *Action 3.3: Build workforce development strategies.***

Collaborate with partners to develop skills training for the next generation of spatial analysts, as well as consideration for how we broaden and diversify the spatial workforce.

- **Administration goals and objectives**
 - Executive Order [Expanding Apprenticeships in America](#)
 - M-17-30 – [FY19 Administration Research and Development Priorities](#) – “Developing a Future Focused Workforce”

GeoPathways Initiative – Concept & Activities

*GeoPathway
Workforce
development
concept*



GeoPathways Initiative – Concept & Activities



Mentoring & Networking

- Interact with Subject Matter Expert(s)
- Coaching
- Job Shadowing
- Develop network



GeoPathways Initiative – Concept & Activities



Education & Training

- Develop knowledge and skills in the use of geographic information
- Online Courses
- Webinars
- Brown Bags



GeoPathways Initiative – Concept & Activities



Research

- Conduct research in the application of geospatial data data and services:
 - Various Industry Sectors
 - Topical and Thematic areas
 - Emerging Technologies



GeoPathways Initiative – Concept & Activities



Application

- Participate in pilots
- Use open data resources
- Development of maps and storymaps
- Use GIS tools to support analysis
- Provide presentations
- Develop information resources

GeoPathways – 2017–2018 Pilot Phase



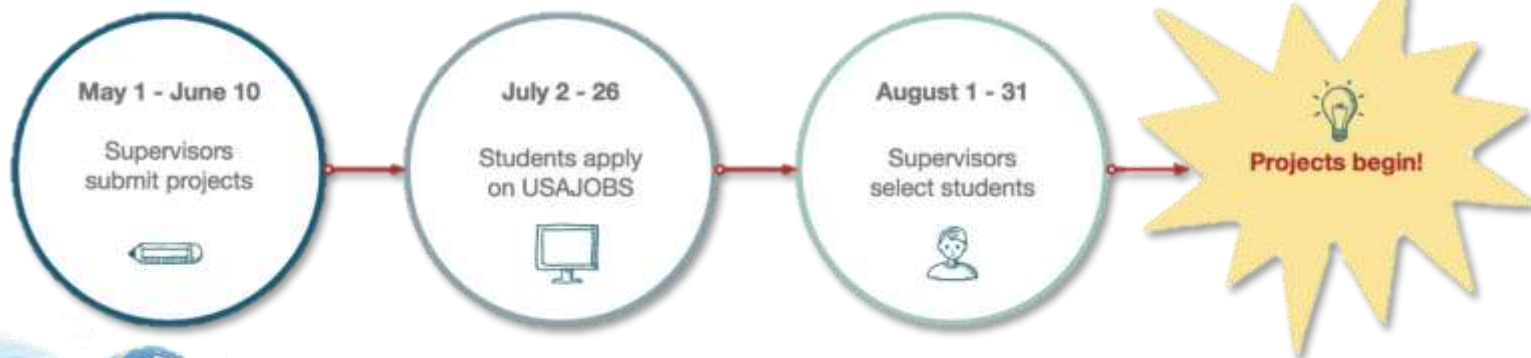
- **Phase 1** – **Initiate Federal Pilot 2017-2018**
 - Collaborate with Federal Partners
 - Establish Mentors
 - Identifying Education and Training
 - Identify Projects and Activities
 - Engaged the USGS Education Office to develop student opportunities
- **Phase 2** – **Expand Engagement in FGDC Community**

GeoPathways – 2017-2018



- ❖ **Leverage State Departments –**
[Volunteer Student Foreign Service Initiative](#)
- ❖ **About VSFS – Initiated 2009**

- Volunteer eInternship for U.S. Citizens enrolled in a certificate or degree program
- Sept-May Academic Year
- Not Employees–Non-paid
- Students Work up to 10hours a week



GeoPathways- 2017-2018 Project Sponsors/Mentors

	Organization	Project	Request
Jake Weltzin	USGS/Ecosystems	NPN R&D/Use Cases	1
Stinger/Derick	CSS	BISON R&D/Use Cases	2
Glenn Gumpel	CSS/NGP	GeoPackage R&D/Use Cases	1
Rob Dollison	CSS/NGP	National Map R&D/Use Cases	1
Jeremy Fee	Hazards	Disaster Resilience	2
Lorna Schmidt	CSS/FGDC-NGP	Arctic SDI	2
Jim Kreft	Water	Water R&D/Use Cases	1
Gary Latzke	Water	Water R&D/Use Cases	1
Angelica Gutierrez	NOAA	AmeriGEOSS/GEOGLOWS	6
Rich Frazier	CSS/FGDC	R&D/Use Cases/Communications	4
Roger Sayer	CLU	Ecosystems R&D/Use Cases	1

**Working with Bruce Quirk on UAV

**Engaging DHS/FEMA Public Health & Safety

** *Working on request from others*

GeoPathways 2017-2018 VSFS Result

- Advertised 3 positions requested 8 students
- 24 Applicants Applied
- Selected 15 students so far
- 12 Universities from West, Central and Eastern U.S.
 - California State University
 - Del Mar College
 - San Jose State University
 - NC State University
 - Coastal Carolina University
 - UCLA
 - Penn State University
 - University of Maryland
 - James Madison University
 - University of Colorado
 - University of Georgia
 - Yale
- Diverse group of Men and Women representing various demographics

Deliverables – Sample List



- Case Studies
- Story Maps
- Fact Sheets
- Posters
- Social Media Content
- Videos
- Infographic Sheets
- Test Results
- GIS Applications and Tools

Planned Activities

Summary



GeoPathways 2017-2018

- Workforce Development Initiative
- Pilot program this year
- Leveraging VSFS
- Collaborating with CSS/USGS and Other Federal Agencies

*Opportunity to select from a pool of 40 additional students with geographic background through 9/18 – *Contact fgdc@fgdc.gov*