NEW JERSEY STEM PATHWAYS NETWORK

The **New Jersey STEM Pathways Network** (NJSPN) is a strategic public-private alliance defining and guiding a **STEM** vision for cradle to career pathways in New Jersey.

STEM

SCIENCE • TECHNOLOGY • ENGINEERING • MATH

WHAT WE DO

Using data to drive all objectives and achieve our mission, the NJSPN:

1 Aligns resources to scale and replicate promising practices.

2 Identifies learning opportunities by convening **New Jersey's STEM** experts.

3 Promotes **STEM** career pathways by training state leaders and creating deeper public awareness of opportunities available in the 21st century workforce.

OUR APPROACH
Focus Groups

Our four New Jersey STEM Priority Groups are smaller collectives of NJSPN members, tasked with setting S.M.A.R.T. goals towards improving the state of New Jersey STEM, and carrying out tangible actions to complete these goals.

Any member of the New Jersey STEM Pathways Network can participate in a priority group. Priority groups are comprised of diverse stakeholders who contribute to achieving the group's objective by drawing from the perspective of their various backgrounds. Together the group defines what success will look like and executes their plan.

Our current priority group areas are:
- Computer Science
- Early Childhood Learning
- Teacher Recruitment & Training
- Workforce Development

DATA DASHBOARD

Based on a recommendation that encouraged the NJSPN to identify uniform outcome measures to track the collective impact, the NJSPN leadership team proposed the creation of a data dashboard tool that presented several STEM indicators of success to provide stakeholders an accessible tool to assess the state of STEM and measure their progress over time. As such, the Heldrich Center proposed the development of the New Jersey STEM Dashboard to present key indicators that match with NJSPN goals.
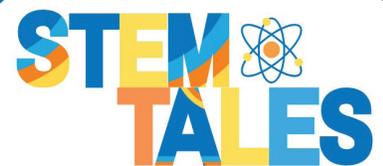
To view the dashboard, visit https://njstempathways.org/dashboard.

Visit Our Blog!
STEM TALES

Read up on what's going on in our communities, ecosystems, and priority groups by visiting our blog at **https://njstempathways.org/stemtales.**

Join us by visiting: **www.njstempathways.org** and by following **@njstempathways** and **#NJSTEM**

NJ STEM
Ecosystems

Replicating the National **STEM** Learning Ecosystems model, the NJSPN has fostered the creation of five **STEM** Learning Ecosystems to advance collaboration across educators, business, government and community-based organizations in order to form more integrated cradle-to-career pipelines.

Representing nine New Jersey counties, the Ecosystems are opportunities to address unique regional challenges, while also providing a space to pilot, scale and replicate work that expands a statewide vision of **STEM.**

Delran **STEM** Ecosystem Alliance
BURLINGTON COUNTY

An integrated, interactive **STEM** community that provides all learners access to high-quality **STEM** learning and work opportunities.

- Opened a digital fabrication lab to leverage and enhance **STEM** experiences and prepare students for the 21st century economy
- Development of county-level **STEAM** camps for grades 3-12
- Expansion of Robotics programming in grades 2-8
- Computer Science exposure for K-8 students
- Sustainable energy and agricultural programs to engage students

South Jersey **STEM** & Innovation Partnership
CAMDEN, CUMBERLAND AND SALEM COUNTIES

A diverse community of educational institutions, subject matter experts and industry leaders developing the region's talent pipeline.

- **STEM** Advisory Board to give employers a voice in building talent to fill their regional needs and prepare for future innovations
- Hack-a-Thons (HackSJSIP) in Camden and Salem Counties to promote Computer Science
- Increase digital literacy of students and educators Talent Pipeline development (Engineering, Cybersecurity, Mechatronics)

HSMC Tri-county **STEM** Ecosystem
HUNTERDON, SOMERSET AND MERCER COUNTIES

- Three priority groups focusing on Early Childhood Education, Community Engagement, and Workforce Development working to close gaps in education and workforce for females and minority students in STEM studies and careers
- Alignment of STEM-focused in- and out-of-school resources for all students in Hunterdon, Somerset, and Mercer counties

A working collaborative group comprised of students, educators, community and non-profit organizations, businesses, and public funders who provide **STEM** opportunities and greater equity in **STEM** education.

Newark **STEAM** Coalition
NEWARK, ESSEX COUNTY

- Alignment of in-and-out-of school learning opportunities to integrate preparation for 21st century economy
- Workforce development initiatives, including connections between youth and employers

A resource-rich ecosystem that prepares PreK-16 students to participate in a 21st Century workforce by closing opportunity gaps to ensure prosperity for the entire community.

A renowned community dedicated to enriching **STEM** opportunities in Hudson County by incorporating all voices, creating pathways, and serving as an information hub.

Liberty **STEM** Alliance
HUDSON COUNTY

- County wide Hack-a-Thon to advance Computer Science
- Workforce development events, with Latinas in **STEM**
- Professional Development for in-and-out of school educators

Celebrate NJ STEM Month!

NJ STEM MONTH 2020

#NJSTEMMonth

Visit
njstempathways.org/stemmonth
for more information.

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Join us by visiting: www.njstempathways.org and by following @njstempathways and #NJSTEM