The University of Rhode Island Transportation Center offers a wide array of programs for Rhode Island middle and high school students, as well as secondary school educators and transportation professionals.

www.uritc.org
Middle School Programs

SMILE Engineering Challenge

Middle school students in the Science and Math Investigative Learning Experiences (SMILE) program come to the URI campus once a year to compete in SMILE’s Engineering Challenge.

Each challenge involves a hands-on transportation or engineering project that requires planning, measuring, building, testing and teamwork.

Summer Transportation Institute

The URITC hosts two, two-week sessions for seventh, eighth and ninth grade students. The curriculum exposes students to highway and bridge design, construction and maintenance of roads, transportation of people and cargo, laws, regulations, safety and career opportunities.

In addition, students participate in computer training, academic enhancement activities, field trips and student projects.
**High School Programs**

**Business Academy**

In the week-long Business Academy, high school freshmen, sophomores and juniors get a feel for managing a company’s supply chain, including planning, purchasing, production, transportation, storage and distribution and customer service.

Site visits to local ports and distribution facilities allow students to interact with professionals and get first-hand exposure to the world of transportation.

**Construction Academy**

The curriculum for high school sophomores, juniors, seniors and recent graduates for the week-long Construction Academy includes: OSHA 10-hour certification, flag person certification, work zone safety, hands-on activities with heavy equipment, blueprint reading, estimating, construction math, and surveying and layout.
High School Programs

Engineering Academy

The URITC hosts a one-week Engineering Academy for high school freshmen, sophomores and juniors.

The curriculum includes subjects such as highway design, bridge design, traffic engineering, water resources, environmental engineering, geographic information systems (GIS), geotechnical engineering.

Green Design Academy

The focus of this one-week program for freshmen, sophomores and juniors is sustainable development on the campus, in the community and in the city. Students learn what sustainability means and how it influences the design of communities and landscapes.

Participants visit landscapes, meet designers and installers, and learn about the skills and methods that professionals use in the design of sustainable places.
Maritime-Freight Academy

The URITC’s newest academy for high school freshmen, sophomores and juniors combines visits to companies that are a part of the maritime freight industry, a visit to a port, and practice steering in a shipping vessel simulator. It is augmented with in-class work and computer games to reinforce the topics.

Students can earn credit toward a junior certification in Logistics and Transportation awarded by the American Society of Transportation & Logistics.

Rhode Island Construction Career Days

This two-day, hands-on event introduces high school students to career opportunities in the transportation construction industry. Students interact with industry professionals, municipal employees and college representatives.

Participants may also enter the bridge building competition, in which the students build model bridges ahead of time and have them tested at the event.
# Engineering Career Day

Engineering Career Day introduces high school freshmen, sophomores and juniors to career opportunities in engineering through hands-on and classroom activities. Students rotate through learning labs at URI’s College of Engineering.

The students learn about such topics as bridge and geotechnical engineering, traffic engineering, highway design, surveying and environmental engineering.

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## Workforce Development Initiatives in RI*

<table>
<thead>
<tr>
<th>Student Programs</th>
<th>Website</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACE Mentor Program</td>
<td><a href="http://www.acementor.org/affiliates/rhode-island/">www.acementor.org/affiliates/rhode-island/</a></td>
<td>Students learn to turn interests into careers.</td>
</tr>
<tr>
<td>Ctr. for Workforce &amp; Comm. Ed.</td>
<td><a href="http://www.ccri.edu/cwce/">www.ccri.edu/cwce/</a></td>
<td>A multitude of training programs at CCRI.</td>
</tr>
<tr>
<td>College Crusade of RI</td>
<td><a href="http://www.thecollegecrusade.org/main/">www.thecollegecrusade.org/main/</a></td>
<td>Increases career success for urban youth.</td>
</tr>
<tr>
<td>Junior Achievement of RI</td>
<td><a href="http://jarhodeisland.org/">http://jarhodeisland.org/</a></td>
<td>Prepares young people for a global economy.</td>
</tr>
<tr>
<td>Rhode Island FBLA</td>
<td><a href="http://www.rifbla.org/">www.rifbla.org/</a></td>
<td>Enriches students through business related topics.</td>
</tr>
<tr>
<td>SkillsUSA RI</td>
<td><a href="http://skillsusari.org/">http://skillsusari.org/</a></td>
<td>Working to ensure America has a skilled workforce.</td>
</tr>
<tr>
<td>YouthWORKS411</td>
<td><a href="http://www.dlt.ri.gov/youthworks411/">www.dlt.ri.gov/youthworks411/</a></td>
<td>A network of 13 youth centers throughout RI.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Adult Programs</th>
<th>Website</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Commerce RI</td>
<td><a href="http://www.commercerci.com/">www.commercerci.com/</a></td>
<td>Creates the conditions for businesses to thrive.</td>
</tr>
<tr>
<td>netWORKri</td>
<td><a href="http://www.networkri.org/">www.networkri.org/</a></td>
<td>One-stop career center system.</td>
</tr>
<tr>
<td>Workforce Partnership of RI</td>
<td><a href="http://www.griworkforce.com/">www.griworkforce.com/</a></td>
<td>Increases labor &amp; training initiatives within the state.</td>
</tr>
<tr>
<td>Workforce Solutions of Prov./Cran.</td>
<td><a href="http://www.providenceri.com/wspc">www.providenceri.com/wspc</a></td>
<td>Programs that are linked to local labor market needs.</td>
</tr>
</tbody>
</table>

*This list is just a sample of some of the programs that are available throughout the state.*
Adult Programs

Teacher Externship

Since 2010, the Teacher Transportation Externship program brings educators and industry together so curriculum can be developed which apply the academic skills that they teach in the classroom.

Participants spend 40 hours over a two-week period at a public works department, a transportation engineering consulting company, a construction company or at RIDOT. Then they prepare a lesson plan for their subject that meets state educational standards.

RI Technology Transfer Center

The URITC’s Technology Transfer (T2) Center provides workforce development opportunities for public works and transportation practitioners throughout the year.

Many classes take place at the T2 Center’s training center in Warwick. The Center holds close to 100 workshops and events each year, including National Highway Institute (NHI) classes. Class sizes range from 6 – 60.