The New England Transportation Consortium, a collaborative effort of the New England State Departments of Transportation and State University Systems, provides a regional approach to developing innovative solutions to transportation problems common to the New England states through research and technology transfer.

**STATE DEPARTMENTS OF TRANSPORTATION**
- Connecticut Department of Transportation
- Maine Department of Transportation
- Massachusetts Department of Transportation
- New Hampshire Department of Transportation
- Rhode Island Department of Transportation
- Vermont Department of Transportation

**STATE UNIVERSITIES**
- University of Connecticut
- University of Maine
- University of Massachusetts System:
  - UMass – Amherst
  - UMass – Dartmouth
  - UMass – Lowell
- University of New Hampshire System:
  - University of New Hampshire
  - Plymouth State University
- University of Rhode Island
- University of Vermont

**THE RESEARCH & TECHNOLOGY TRANSFER STORY**

**BRIDGES, SIGNS, & GUARDRAILS**
- Examining the use of Ground Penetrating Radar for inspecting concrete bridge decks; University of Vermont - $224,901
- Developing a polymer/carbon-fiber/ground rubber-based bridge expansion joint; University of Connecticut - $149,982
- Bridge rail transitions crash-tested and qualified for use on the National Highway System; Texas Transportation Institute - $240,000

**ROAD CONSTRUCTION & MAINTENANCE**
- Development of a truck-mounted prototype for continuous measurement of roadway de-icing salt concentration; University of Connecticut - $187,336
- Evaluating the reinforcement and drainage capabilities of geosynthetics in roadway construction on soft subgrade soils in cold regions; University of Maine - $150,000
- Developing techniques that improve the adhesion of topcoat paints applied to galvanized metal; University of Rhode Island - $125,000
INTELLIGENT TRANSPORTATION SYSTEMS

Assessing the applicability of Intelligent Transportation Systems to winter recreational travel problems in New England; University of Vermont - $54,725

MATERIALS

Development of a testing protocol for use of the rapid triaxial test system in quality control of Hot Mix Asphalt production; UMass Dartmouth - $80,000

Evaluating the effectiveness of a field permeameter as a quality control tool for longitudinal joints in asphalt pavements; University of New Hampshire - $77,318

Developing a laboratory-field permeameter for use as a field quality control device for Hot Mix Asphalt pavements; UMass Dartmouth - $95,500

Assessing the applicability of Intelligent Transportation Systems to winter recreational travel problems in New England; University of Vermont - $54,725

SOILS

Determining the effectiveness of the Portable Falling Weight Deflectometer as a tool for setting roadway load restrictions; University of Maine - $100,000

Expanding the use of Advanced Composite Materials in transportation infrastructure projects in New England; UMass Amherst - $72,845

Development of design and control procedures for a chemical admixture to provide improved protection against road salt induced corrosion in concrete bridge structures; UMass Amherst - $133,385

STORMWATER TREATMENT

Evaluating bacteria removal and survivability efficiency of stormwater hydrodynamic separator units; UMass Lowell - $80,000

Determining the impacts of inclement weather on traffic flow and integrated traffic signal operations on arterial streets; University of Vermont - $74,038

TRAFFIC OPERATIONS

Creating elderly-friendly, graphic-aided, dynamic message driver information signs; University of Rhode Island - $60,000

Development of mitigating measures for workzone collisions; UMass Amherst - $70,387

TECHNOLOGY TRANSFER

Highlighting the Consortium’s Research at the Annual AASHTO Meeting

RESEARCH FUNDING

University of Connecticut: $1,323,193
University of Massachusetts System: $1,984,821
University of Maine: $607,346
University of New Hampshire System: $728,489
University of Rhode Island: $824,610
University of Vermont: $653,662