



TRI-CITIES

Bachelor's Degree in **COMPUTER SCIENCE**

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// save element operators for current element and store them in element operator matrices
for ( i = 1; i <= nodel; i = i + 1 ){
  for ( j = 1; j <= nodel; j = j + 1 ){
    ff[ i ] = go-->mass( ie, i, j );
    ff[ j ] = go-->d1dx( ie, i, j );
    ff[ 3 ] = go-->d2dx( ie, i, j );
    ff[ 4 ] = go-->d1dx( ie, i, j );
  }
  op.store( i, j, ff );
}

// retrieve and store coordinates of nodes of current element into integration parameters for possible use in differential
for ( i = 1; i <= nodel; i = i + 1 ){
  ii = gr->elnodes( ie, i ); // global number " ii " of node " i " in element " ie "
  int_par.x[ i ] = gr->x( ii ); // x-coordinate of global number " ii "
}
for ( i = 1; i <= nodel; i = i + 1 ){ // current node " i " at which equation will be formed
  ii = gr->elnodes( ie, i ); // global number " ii " of node " i " in element " ie "
  for ( j = nodel; j = j + 1 ){ // current node " j " coupled by current equation " i "
    jj = gr->elnodes( ie, j ); // global number " jj " of node " j " in element " ie "
    o.m = op.mass( i, j );
    o.d1dx = op.d1dx( i, j );
    o.d2dx = op.d2dx( i, j );
    o.wd1dx = op.wd1dx( i, j );
    o.x = int_par.x[ j ];
  }
  ls->NodeVar( jj, q, 60); // store in " o.f[]" all variables at node " jj "
  form_jac_rhs( 60, f, df ); // form rhs and jacobian of partial differential equation system
  ink->Comp_Jac( nvar, jj, o.ma, f, df ); // complete jacobian of INK rhs
}

```

Transform the world with a Bachelor of Science degree in Computer Science from Washington State University! Tri-Cities' School of Engineering & Applied Sciences will empower you to develop advanced systems that enhance people's lives, learning how to work in teams and design state-of-the art software that can operate power plants, aircraft, space stations, and smart devices.

You will enjoy becoming a computer scientist through project-based hands-on learning. On our attractive campus, students participate in laboratory experiences, work on industry-sponsored projects, and can even conduct research with their professors, using excellent equipment in our laboratories.

Through our vibrant regional partnerships, students complete paid internships in real-world organizations, such as the Pacific Northwest National Laboratory and Mission Support Alliance. You may even earn both a BS and an MS degree in fewer semester than usual, and practice computer science in another culture through education abroad in other internationally renowned computer science centers.

WSU computer science graduates gain admission in prestigious graduate programs and secure high-paying positions in the industry, advancing professionally in a multitude of leading-edge computer science fields.

Careers

- Computer Scientist
- Software Engineer
- Software Developer
- Game Developer
- Software Entrepreneur
- Bioinformatician
- Cybersecurity Specialist
- Application Developer
- Software Architect
- Software Guru
- Consultant
- Database Administrator
- Professor



Brian LaMarche

Bachelor of Science in Computer Science 2004
Software Engineer

Brian LaMarche earned a bachelor's degree in computer science and just finished his doctoral degree program. His dissertation focuses on the alignment and correlation of thousands of proteomic and metabolomic datasets using unsupervised learning techniques. Brian's putting his degree to work as software engineer at Hectate Software, Inc.



PROFESSIONALLY RELEVANT

Would you like to transform the world and elevate societies?

It's in the job description of computer science graduates!

Computer scientists and software engineers advance the computing revolution that affects virtually all aspects of our society. This revolution is sustained by our computer science graduates.

We offer two WSU bachelor's degree programs in computer science: the Bachelor of Arts (BACS) and the Bachelor of Science (BSCS).

The BSCS program emphasizes algorithms and software engineering. The BACS program involves fewer computer science courses, but requires courses in other areas, with a minor being strongly encouraged. Both programs engage students in software development, testing, and validation.

These two programs have earned accreditation by the Accreditation Board for Engineering and Technology, Inc., (ABET), the esteemed U.S. organization that accredits Computer Science and Engineering programs, ensuring that graduates possess the preparation needed by the profession.

Apply Now

How to Apply

- Fill out the application form available at: tricity.wsu.edu/admissions/apply
- Provide your official transcripts
- Send in your SAT or ACT test scores, which are needed if you are applying as a freshman or have less than 27 semester (40 quarter) hours of transferable college credits
- Submit your complete application

Note: Several departments require additional materials or have different deadlines, so you are encouraged to contact us early in the process.

Talk to us

We will inform you of your options, help you with the preparation of needed documents, and advise and guide you through the application process

For More Information

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tricity.wsu.edu/admissions

According to the *Washington Roundtable*, the state of Washington anticipates hiring nearly 5,000 computer scientists and cybersecurity specialists in the next five years. Use your WSU Computer Science degree to pursue a successful career in the high-paying field of computer science.