

PhysTEC



Physics for elementary education students learn how to do engaging physics demonstrations

Every year about 300 fully certified physics teachers graduate from the nation's colleges while approximately 500 physics teaching openings become available due to retirements and teachers leaving the profession.

Take advantage of this great opportunity by contacting PhysTEC to find out more about physics education. Our goal is to help more teachers get certified, hired and trained in hands-on learning environments. PhysTEC learning assistants will be helping to educate their fellow students, gain valuable and positive classroom experience and participate in outreach programs for the University such as PACES: Parents and Children Experience Science and Physics Force.

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Career opportunities

The teacher shortage is even more pronounced in secondary science and mathematics classrooms. At least 280,000 positions in these fields will need to be filled by 2015. In Minnesota, half of school superintendents report a shortage of teachers in physics and chemistry according to a recent study.

Get qualified: make a difference

- Only 33% of the teachers teaching physics in the United States have a major in physics or a certification in this area.
- The critical lack of technically trained people in the US can be traced directly to poor K – 12 mathematics and science instruction.
- The Center for the Study of Teaching reported that the most consistent and powerful predictor of student achievement in science and mathematics was the presence of *teachers who were fully certified and had at least a bachelor's degree in the subjects taught.*

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The American Physical Society, the American Institute of Physics and the American Association of Physics Teachers, with funding from the national Science Foundation started the PhysTEC program to address this crisis and help turn undergraduates into qualified physics teachers.

You can pursue full certification, get hired, become an excellent physics teacher, and produce excellent students. Further opportunities include the "Teach for America" program and the numerous scholarship opportunities for future science teachers.

Don't let these opportunities go to waste!



Teachers in training : The physics for elementary education class



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Help Wanted: Physics Teachers Preferred

Looking for creative, fun-loving people with good skills in science and math to teach future generations about physics. Paid positions available working with mentors. Employment opportunities abound in this booming field. Meet diverse and interesting people, use your creativity to meet the challenges of teaching and make a difference in the lives of young people.



Teaching Physics is fun

The University of Minnesota and the School of Physics and Astronomy are offering **paid Learning Assistantships**. These positions will be an integral part of the undergraduate physics courses at the U and will give you a chance to experience teaching first hand.



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Physics Teacher Education Coalition



UNIVERSITY OF MINNESOTA