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### **Particle Physics Outreach for Secondary Education**

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We provide a general overview of activities that particle physicists have developed to reach out to teachers and students. There is a remarkable worldwide interest in particle physics stimulated by the search for the Higgs Boson and a remarkable worldwide interest on the part of physicists to inspire today's students and tomorrow's scientists. While most students will not become physicists, they do need to understand how scientists discover knowledge—their ideas and methodology. We explore three types of activities: informal opportunities for students and resources for teachers, professional development for teachers and research experiences for teachers and students alike. We provide some suggestions for developing and assessing effective programs.