

# Colin P. DeGroot

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**Professional Profile** I am currently an 8<sup>th</sup> grade physical science teacher at Rio Rancho Middle School. I have a Bachelor's degree in Secondary Science Education from the University of New Mexico as well as a Masters degree in Science Teaching from New Mexico Tech. I also have years of experience and training in developing, implementing, and refining Project Based curriculum. Below are more specific skills I have to bring to your organization.

- Excellent computer skills
- Leadership skills as department head
- Desire to continuously learn and improve
- Develop engaging project based curriculum
- Understanding of a wide range of science, technology, engineering, and math concepts
- Proficiency with Special Services as demonstrated though 8 years of inclusion
- Effective community involvement with outside organizations

## Professional Accomplishments

### New Mexico Level III Teaching License

- Completed 9 years of successful science teaching
- Earned an advanced degree from New Mexico Tech
- Passed a professional development dossier focusing on being a leader in successful curriculum design
- Successfully worked with colleagues, parents, and administrators over the course of several years focusing on student learning and growth

### Academies Creating Teacher research fellowship at Sandia National Labs

- Completed three year research fellowship focused on water and energy resources and engineering at Sandia National Labs.
- Presented at the NSTA regional conference in Portland in 2008
- Developed project based lessons with colleagues in the program on sustainable development, climate change, and water filtration

### POWER Workshop series for teachers

- Developed a series of workshops focused on Project Based lessons for middle school and elementary school teachers
- Received funding from Lockheed Martin and Sandia National Labs through grants
- Offer one day workshops throughout the year, and two-week long workshops in the summer
- Lead in the planning, implementation, and curriculum development

### Presentations

- Presented a Project Based curriculum guide I developed, Pyramids of Knowledge, at the NMSTA conference in Ruidoso in 2009
- Presented Pyramid of Knowledge Curriculum guide for project based instruction at New Mexico STEM Symposium in 2014
- Lead science teacher at the Native American Summer Academy for 2013 and 2014

### Multiple Individual Grants

- ING Unsung Heroes Grant – Grant to engage students in the science and engineering behind Green Construction. Yearlong project looking at individual aspects of sustainability from renewable energy, environmentally friendly materials and water processing culminating in a working model.
- Rio Rancho Educational Foundation – Grant for materials to design and build small scale wind turbines for every student with the goal of taking their cell phones “off grid”
- NMT Wired Scholar Grant – received a material grant that included kits for solar energy projects, wind energy projects, fuel cell projects, and aviation projects.

Work History **8<sup>th</sup> grade Inclusion/SIOP Science Teacher**  
Rio Rancho Mid-High, Rio Rancho NM  
August 2005 – May 2009

**Science Content Leader**  
Rio Rancho Mid-High, Rio Rancho NM  
2007-2009 School Year

**Research Fellowship**  
Sandia National Labs, Albuquerque NM  
June 2007, 2008, 2009

**7<sup>th</sup> and 8<sup>th</sup> grade Inclusion Science Teacher**  
Rio Rancho Middle School, Rio Rancho NM  
August 2009 - current

**Science Content Leader**  
Rio Rancho Middle School, Rio Rancho NM  
2011 – current

**Head football coach**  
Rio Rancho Middle School, Rio Rancho NM  
2009 – Current

**Head Track Coach**  
Rio Rancho Middle School, Rio Rancho NM  
2008-2011

Education **Bachelors of Science in Secondary Science Education**  
Minor in Biology with an emphasis in Secondary Science Education  
University of New Mexico  
Albuquerque, New Mexico  
June 2005

**Master of Science Teaching**  
Emphasis on Green Construction and Sustainability  
New Mexico Tech  
Socorro, New Mexico  
June 2011

References Amy Tapia, Manager Community Involvement Sandia National Labs  
505-250-1111 astapia@sandia.gov  
Amy Roble, Deputy Director SIATech Charter School, Albuquerque NM  
505-280-0403 amy.roble@siatech.org  
Frank Flores, Science Teacher Columbus School, Medellin Columbia  
505-717-7298 frankieflores87114@yahoo.com  
Reference Letters Available Upon Request