

J.D. McAlpine

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OBJECTIVE

I am seeking employment in the Puget Sound region in either the fields of air quality management or applied meteorology beginning in August 2009. I will be seeking accreditation as a Certified Consulting Meteorologist soon and believe I will be an asset to your team based on my skills and experience.

EXPERIENCE

Graduate Research Assistant

Reno, NV

Desert Research Institute, Div. of Atmospheric Science, *Sept. 2006- present*

- Developed a model to simulate the entrainment and dispersion of particulate matter from aircraft
- Participated in a large scale field project to collect meteorological and air quality measurements
- Presented findings in multiple scientific journal articles and at scientific conferences

Air Quality Scientist

Seattle, WA

Envirometrics, Inc., *Jan. 2002- Aug. 2006*

- Air quality modeling, emission inventories, BACT analyses, and report writing for PSD and litigation
- Conducted specialized meteorological and dispersion modeling studies
- Conducted modeling for wind energy resource assessment
- Presented educational seminars to engineering and architectural firms

Undergraduate Research Assistant

Greenbelt, MD

NASA Goddard Space Flight Center- Joint Center for Earth Systems Tech., *Summer 2001*

- Evaluated and expanded a new method to estimate snowfall on sea ice using satellite data

Intern Weather Forecaster

Seattle, WA

Fisher Broadcasting, Inc. – KOMO 4 News, *Oct. 1999- April 2000*

- Assisted with preparation of weather forecasts and graphics for the evening news

EDUCATION

M.S., Atmospheric Science, expected graduation: *May 2009*

University of Nevada, Reno / Desert Research Institute, Reno, NV

- 3.94 GPA, concentration in atmospheric modeling and probability theory
- President: Reno-Tahoe Student Chapter of the American Meteorological Society (2008)
- Lead weather forecaster for weekly UNR Sagebrush Student Newspaper

B.S., Atmospheric Science, *Dec. 2001*

University of Washington, Seattle, WA

- 3.41 GPA, Minor: Applied Math
- President: UW student chapter of the American Meteorological Society (2000)
- WashPIRG student team leader: Energy and the Environment (2001)

SKILLS / TRAINING

- Air quality modeling: AERMOD, ISCST3, CALINE, CALPUFF
- Meteorological modeling: MM5, CALMET, OMEGA, GEMPAK
- Computational fluid dynamics: FLUENT, CFD2000
- Proficient with Microsoft Office software
- Proficient in Windows or Unix environments
- Computer programming languages: C, Visual Basic, IDL, Fortran
- Excellent verbal and written scientific communication skills
- Adept in boundary layer meteorology, weather forecasting, probability/statistics, and dispersion science
- New Source Review educational workshop, Denver, Colorado (2002)
- Strong interests in renewable energy, environmental protection, and atmospheric dynamics

PROFESSIONAL MEMBERSHIP

American Meteorological Society
Air and Waste Management Association
National Weather Association

AWARDS / HONORS

2006 The Sierra Pacific Graduate Scholarship (University of Nevada)
2004 Excellence in Presentation Award- AWMA PNWIS 2004 Annual Meeting
2000 Univ. of Wash Atmospheric Sciences Departmental Scholarship