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# Julio E. Sada

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**Objective:** Seeking an entry level position as Chemical /Environmental Technician with a company that offers professional growth opportunities where I can develop my chemical technical skills.

**Education:** **Texas State Technical College** Harlingen, Texas  
Associates of Applied Science Degree in  
Chemical/Environmental Technology  
Summer of 2008 to Present  
Expected graduation – August 2009  
**University of Texas At Brownsville**  
Master of Science in Interdis. Studies in Biology... Aug. 1995  
**University of Texas At Austin**  
BA in Psychology...May 1972, (Minors: Biology, Chemistry, Math.)

**Awards received:** Society of Plastics Engineers Scholarship, Spring 2009  
24 Hour Hazardous Material Emergency Response and  
Waste Operation (HAZWOPER) course. Certified in  
August 2009

**Work History:** Biology Instructor, UTB, 1995-Present  
High School Science Teacher(Chem., Biol., Physical Sci.)  
Brownsville ISD, 1989 -2007(Retired)  
Self-Employed: Building Trades, Austin 1974-1988  
School Community Liaison, Desegregation, Austin ISD, 1972-1974

**Volunteer Experience:** Bar-BQ Fundraiser Summer 2008, Spring 2009, Summer 2009  
Chemical/Environmental Program Demonstrator and Tour  
Guide...Summer 2008 -Present  
TGLO Boca Chica Beach Clean-Up Volunteer – Fall 2008  
Chemical/Environmental Technology Club, member –  
Summer 2008 to present  
Texas Water Watch Volunteer, 1989-1994

**Languages:** Fluently speak, read, and write Spanish and English

**Computer Skills:** Windows ME, & XP, Microsoft Word, Excel, Power Point

## Analytical

### Experience: Chromatography:

**Buck 910** Series Gas Chromatograph, Hayesep Column, *Alcohols-ketone Detection Limits*. PeakSimple Software  
**Hewlett Packard 5890** Series II Carbowax-20, Prog.Temp. *Polymer Conc. Analysis*  
**Hewlett Packard 5890** Series II Capillary Column, Split Ratio, *Solvent Analysis*  
**Tracor 950** Isocratic Pump HPLC, Waters Detector, *Acetylsalicylic acid Detection Limits*  
**Agilent HP1120** Series HPLC, UV-VIS, Agilent Z-bax Eclipse C-8 Rev. Phase, Grad. Elution, *Antibiotics in Drinking Water Analysis*, ChemStation Software  
**Agilent 6890** GC on Agilent HP-5(0.25µm) FPD detector, *Parathion Detection Limits*, ChemStation Software

### Spectrophotometry:

**Buck Scientific Model 500** Infrared Spectrophotometer with EZ Scan Software, (*Organic gas, liquid, solid Spectrum analysis*)  
**TJA S-12 AA/AE** Atomic Absorption Spectrophotometer(*Zn, Cu, Pb Analysis*)  
**Thermo S Series AA** Spectrophotometer, SOLAAR Software, (*Pb, Cd Detection Limits Determination*)

### Polymer Characterization:

Polymer synthesis, concentration(GC) and Mw analysis(GPC) of polystyrene  
**Tinius-Olsen Extrusion Plastometer** *Melt-Index Determination*, (Talc, Ca stearate, Irganox additives)  
**Atlas LLM Laboratory Mixing Molder**, *Yield and Break Modulus Determination*  
**Randcastle Extrusion System** Model RCP 0625  
**Instron Electronic Load Cell** *Yield and Break Modulus Determination*

### Environmental/Microbiological Analyses:

HACH Dissolved Oxygen Test  
HACH Biological Oxygen Demand Test  
HACH Nitrates in Water Test  
HACH Free Chlorine in Water Test, using Spec-20  
HACH Phosphates in Water Test  
Hardness of Water Titration with EDTA/Eriochrome Black

### Unit Operations:

Batch Mixing, Batch Drying *Procedures and Analysis*  
Continuous Distillation, Batch Distillation, *Procedures and Analysis*  
Fluid Flow in Various Diameter piping, *Orifice meter Calibration*  
Reynolds Number and Fanning Friction Factor Calculations  
Simulated Distillation Column *Start-Up and Shut-Down Procedures*

References: Mr. Robert Hernandez, Chair, Chemical-Environmental Tech. Dept. TSTC  
(956) 364-4717: robert.hernandez@harlingen.tstc.edu

Mr. Roel Flores, Instructor for Chemical-Environmental Technology, TSTC  
(956) 364-4716: roel.flores@harlingen.tstc.edu

Dr. Greg Garcia, Brownsville ISD Secondary Science Specialist  
(956) 698-2307 Office