Note: AY = Academic Year; FY = Fiscal Year

**Effort Commitment**

If the effort commitment is the same for all 12 months of the year and the investigator has a 12-month appointment, no calculation is needed.

Total Months Worked = Appointment Months + Summer Months = Total Months Worked

**Basic Formula (use when effort commitment is the same for all working months)**
1. \((\text{Total Months Worked} \times \text{Effort\%}) ÷ 12 = \text{Annual Effort Commitment\%}\)
2. \(\text{Total Months Worked} \times \text{Effort} = \text{Annual Effort Commitment in person-months}\)

**Advanced Formula (use when effort commitment is different for Academic vs. Summer months)**
1. \((\text{Appointment Months} \times \text{Effort\%}) ÷ 12 = \text{AY Effort Commitment\%}\)
2. \((\text{Summer Months} \times \text{Effort\%}) ÷ 12 = \text{Summer Effort Commitment\%}\)
3. \(\text{AY Effort} + \text{Summer Effort} = \text{Annual Effort}\)

Shortcut: \([\text{AY Months} \times \text{Effort\%}] + [\text{Summer Months} \times \text{Effort\%}] ÷ 12 = \text{Annual Effort\%}\)

**Annualized Salary**
1. Salary ÷ # of Appt. Months = One Month Salary
2. One Month Salary × 12 = Annualized Salary

Shortcut: Salary ÷ of Appointment Months × 12 = Annualized Salary

**F&A/Indirect Costs**

*MTDC:* MTDC × F&A Rate = F&A Costs
  - MTDC does not include equipment, first $25K of non-UC outgoing subawards or outgoing subawards
  - Most commonly used indirect base at UC Davis

*TDC:* TDC × F&A Rate = F&A Costs
  - TDC includes all direct costs

**TC:** There are two formulas to choose from based on if costs are known
  - If costs are known: \((\text{TDC} ÷ (1-\text{F&A Rate})) – \text{TDC} = \text{F&A Costs}\)
  - If costs are unknown: \(\text{TC} – (\text{TC} \times (1-\text{F&A Rate})) = \text{F&A Costs}\)

**Split Rates**
1. Annual Costs ÷ 12 = One month of costs
2. Months before end of FY (before June 30th) = Months at Rate 1
3. One Month of Costs × Months at Rate 1 × Rate 1 = Costs to charge at first rate
4. Months after start of next FY (after July 1st) = Months at Rate 2
5. One Month of Costs × Months at Rate 2 × Rate 2 = Costs to charge at first rate
6. Costs at Rate 1 + Costs at Rate 2 = Cost for PY

Shortcut: \((\text{Cost} ÷ 12 \times \text{Months at Rate 1} \times \text{Rate 1}) + (\text{Cost} ÷ 12 \times \text{Months at Rate 2} \times \text{Rate 2}) = \text{Costs for PY}\)